## ASBESTOS SURVEY REPORT MANAGEMENT SURVEY

SURVEY REPORT NO: NCC/MA/FI/00251
Site Address:
Central Library and Contact Centre 3
Angel Row
Nottingham
Nottinghamshire
NG1 6HP


| CLIENT: | DATE OF SURVEY: |
| :---: | :---: |
| Nottingham City Council | (2015 |

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## SECTION

## SITE DIAGRAM

 A
## SECTION

## BRIEF DESCRIPTION OF SCOPE OF SURVEY

1.0 Executive Summary Table.

| Client: | Nottingham City Council |  |  |
| :--- | :--- | :--- | :--- |
| Site address: | Central Library and Contact Centre 3, Angel Row, <br> Nottingham, NG1 6HP |  |  |
| BDA Surveying unique <br> report No: | NCC/MA/FI/00251 | Survey <br> Type: | Management Survey |
| Survey Date: | $16 / 01 / 2015$ | Surveyor: | A. Bennett |
| Signature: |  |  |  |


| Bulk Analysis <br> Laboratory: | BDA Surveying Ltd |  |  |
| :--- | :--- | :--- | :--- |
| Number of bulk <br> samples analysed: | 43 | Analysis date: | $15 / 01 / 2015$, <br> $19 / 01 / 2015 ~ \& ~$ <br> $26 / 01 / 2015$ |
| Analyst: | H. Spence \& B. Norton |  |  |


| Report Approved By: | R. Hubbard |
| :--- | :--- |
| Signature: |  |


| Number of areas inspected: | 170 |
| :--- | :--- |
| Number of asbestos occurrences <br> identified: | 113 |
| Number of High Action Priorities <br> identified: | 3 |
| Number of Medium Action Priorities <br> identified: | 10 |
| Number of Low Action Priorities <br> identified | 100 |
| Number of inaccessible areas: | 210 |

### 2.0 INTRODUCTION.

An initial enquiry was received from Mr Andy Fletcher on behalf of Nottingham City Council for the provision of a Management Asbestos Survey to determine the presence of asbestos containing materials in Central Library and Contact Centre 3, Angel Roq, Nottingham, NG1 6HP.

A proposal was put forward to carry out a survey, that was accepted, and a Management Asbestos Survey of all accessible areas was undertaken on the $16^{\text {th }}$ January 2015.

Further to the completion of the survey all the information gathered has been incorporated into this report to detail all asbestos containing materials located during the asbestos survey.

### 3.0 SITE DETAILS.

The property is a brick built commercial building. Internally the ceilings are plaster, wood, concrete and machine made mineral fibre tiles. The walls are plaster, brick, ceramic tiles and plasterboard. The floors are wood and concrete with fitted floor coverings and the pipework is exposed and unlagged with machine made mineral fibre and foam insulation present in some areas.

### 4.0 SURVEY PURPOSE AND OBJECTIVES.

The survey was carried out to identify as far as reasonably practicable the presence of asbestos containing materials present and their condition. This information can then be available to the client to help ensure that any asbestos occurrences can be managed safely.

### 5.0 SURVEY METHOD AND TYPE.

Standard survey to locate as far as reasonably practicable, the presence and extent of any suspect ACMs in the building which could be damaged or disturbed during normal occupancy including foreseeable maintenance and installation and to assess condition as described within Health and Safety Executive Guidance Note HSG 264 Asbestos: The Survey Guide

### 4.0 SAMPLING STRATEGY.

The sampling method used varied depending on the type of material. All asbestos containing materials or materials suspected of containing asbestos were treated with caution and dust suppression techniques used. Samples were removed carefully and double wrapped in polythene sample bags. Each sample was then individually labelled with a unique identification number, the date taken, the location and the condition of the material.

A total of 43 bulk samples were collected and analysed in house by BDA Surveying Limited (UKAS accredited Laboratory Reference 2791) The sample analysis procedure is described in our Documented In-house Method 2.

All samples were examined to detect the presence of asbestos fibres. Fibres in the samples were identified using a stereo microscope, polarised light and dispersion staining technique as described in the Testing Laboratory Document "Identification of Bulk Materials" which incorporates the method set out in HSG 248.

During the survey there may have been occasions where samples were not taken. These are listed below:

- Unsafe access.
- Identical materials had already been sampled.

In the case of unsafe access an assumption shall be made to the presence of asbestos containing materials. Where generically similar materials had already been sampled, a reference will be made to the sample number and the type of asbestos present

### 7.0 AREAS EXCLUDED.

All safely accessible areas within the premises were surveyed. Areas considered not accessible due to the continued use of the building and potential damage further investigation will have caused are listed in section 14 Inaccessible areas.

### 8.0 UKAS ACCREDITATION

BDA Surveying holds a UKAS accreditation (UKAS Inspection Body No. 365) as a Type C inspection body for undertaking Surveys only.

The Action Priority that is shown on the Asbestos register and Survey Report Sheets is a guide for those managing the asbestos materials identified in this report. It is not included in the UKAS Accreditation held by BDA Surveying Ltd.

### 9.0 DISCLAIMER

Every effort has been made to identify all asbestos materials so far as was reasonably practical to do so within the scope of the survey and attached report. Methods used to carry out the survey were agreed with the client prior to any works being commenced.

Survey techniques used involves trained and experienced surveyors using the combined approach with regard to visual examination and necessary bulk sampling. It is always possible after a survey that asbestos based materials of one sort or another may remain in the property or area covered by that survey, this could be due to various reasons :-

- Asbestos materials existing within areas not specifically covered by this report are therefore outside the scope of this survey.
- Asbestos may well be hidden as part of the structure to a building and not visible until the structure is dismantled at a later date.
- Debris from previous asbestos removal projects may well be present in some areas; general asbestos debris does not form part of this survey however all good intentions are made for its discovery.

This survey will detail all areas accessed and all samples taken; where an area is not covered by this survey it will be due to no access for one reason or another, e.g. working operatives, sensitive location or just simply no access. It may have been necessary for the limits of the surveyor's authority to be confirmed prior to the survey.

- Access for the survey may be restricted for many reasons beyond our control such as height, inconvenience to others, immovable obstacles or confined space. Where electrical equipment is present and presumed in the way of the survey no access will be attempted until proof of its safe state is given. Our operatives have a duty of care under the Health and Safety at Work Act 1974 for both themselves and others.
- 
- Reasonable access to inspect buildings/areas covered within the survey is the responsibility of the client. Comment will not be made on the presence of asbestos containing materials in areas where reasonable access cannot be gained.
- We will not access any rooms, voids areas etc. if the removal or disturbance of asbestos containing materials is required.
- BDA Surveying Ltd. Cannot be held responsible for any damaged caused as part of the survey carried out on your behalf. Due to the nature and necessity of sampling for asbestos some damage is unavoidable and will be limited to just that necessary for the taking of the sample.


### 9.0 DISCLAIMER.... CONTINUED

- The report is issued in confidence to the client and BDA Surveying Ltd cannot accept responsibility to any third parties whom this report may be circulated to in part or in full and any such parties rely on the contents of the report solely at their own risk.


## MANAGEMENT SURVEY NOTES

Floor coverings
During a Management survey the surveyor will not lift carpets, carpet tiles or vinyl coverings (unless specifically requested to do so by the client) to inspect for the presence of asbestos containing materials as they can be difficult to re-lay and cause trip hazards. If future refurbishment/repair works will require the removal of floor coverings further inspection will be required prior to the works commencing.

## Fire doors

Fire doors may contain concealed asbestos containing materials. In the case of a Management non-destructive survey it is not possible to ascertain its presence without causing damage to the door. It should be assumed that all fire doors on the premises contain asbestos containing materials until a destructive inspection is undertaken.

## Gaskets

Gaskets used to seal pipe and ducting joints may contain asbestos usually Chrysotile. In the case of a Management non-destructive survey it is generally not possible to inspect pipe work or ducting for their presence without dismantling or damaging the plant. It should be assumed that all pipe work and ducting on the premises contain asbestos gaskets. The gaskets are unlikely to give rise to significant airborne fibre release unless they are disturbed during maintenance works.

## Skylights

Skylights may contain concealed asbestos rope seals. In the case of a Management non-destructive survey it is generally not possible to inspect skylights for the presence of asbestos rope seals without dismantling or damaging the skylight. It should be assumed that all skylights on the premises contain asbestos containing materials until a destructive inspection is undertaken.

Boxing, behind walls and above plaster ceilings
Asbestos containing materials may be present behind boxing, plaster walls and plaster ceilings. In the case of a Management non-destructive survey it is not always possible to ascertain its presence without causing damage to these materials. It should be assumed that all of these area on the premises contain asbestos containing materials until a destructive inspection is undertaken.

If future refurbishment/repair works will require the removal of the boxing, walls or ceilings, further inspection will be required prior to the works commencing.

## SECTION

## SURVEY EVALUATION

10.0 TERMINOLOGY

| Site | The site is identified by name. |
| :--- | :--- |
| Location | Room / Area where asbestos containing materials are located. |
| Component | A description of the building component inspected e.g. ceiling, <br> wall panel or floor covering. |
| BDA Reference | Each area inspected is given a unique reference number e.g. <br> Warehouse 01. Any building component inspected within this <br> area is then awarded a further number. For example ceiling <br> boards within the warehouse would be given a reference of <br> 01/01. This unique reference is shown on the site plan. |
| Sample = ID | This is a specific number assigned to the Sample by the UKAS <br> accredited testing Laboratory. |
| Product Type <br> Surface <br> Treatment <br> Asbestos Type | See material algorithm. <br> Analysis Result |
| Result of analysis carried out by UKAS accredited testing <br> Laboratory i.e. <br> Crocidolite = Blue Asbestos |  |
| Amosite = Brown Asbestos |  |
| Chrysotile = White Asbestos |  |, | This is the numerical assessment score which is the result of |
| :--- |
| adding scores in previous columns. |$|$| Sumerical value giving a subject assessment by the Surveyor of |
| :--- | :--- |
| the ease of access to the material. |

### 11.0 MATERIAL ASSESSMENT ALGORITHM DEFINITIONS

| The four main parameters <br> for determining fibre release <br> are | Each parameter is scored <br> as: | Numerical value awarded |
| :--- | :--- | :--- |
| Product Type | HIGH | $=3$ |
| Damage | MEDIUM | $=2$ |
| Surface treatment | LOW | $=1$ |
| Asbestos Type | NEGLIGIBLE | $=0$ |
| $\mathbf{\| c \|} \mathbf{\| c \|}$ P HIGH |  |  |
| PRODUCT TYPE |  |  |
| $\mathbf{2 ~ = ~ M E D I U M ~}$ |  | 1 = LOW |
| Lagging (pipes \& boilers) <br> Spray Coats <br> Loose Asbestos <br> Mattresses or Packing | Asbestos Insulating Board <br> Mill Board <br> Low Density Boards <br> Loose Textiles, Soft <br> Gaskets or Ropes <br> Soft Papers and Felts | asbestos Cement <br> Composites, Plastics, <br> Resins, Mastics, Felts, <br> Vinyl's, Floor Tiles, Paints, <br> Decorative finishes (Artex) |


| EXTENT OF DAMAGE / DETERIORATION |  |  |
| :---: | :---: | :---: |
| 3 = HIGH | 2 = MEDIUM | 1 = LOW |
| Extensive damage <br> Delamination of spray coats <br> Delamination of thermal insulation <br> Visible debris | Less extensive damage Significant breakage of material <br> Several smaller areas revealing loose fibre board | Minimal damage <br> A few scratches or surface marks <br> Some broken edges on tiles, boards etc. |


| SURFACE TREATMENT |  |  |  |  |
| :--- | :--- | :--- | :--- | :---: |
| $\mathbf{3 ~ = ~ H I G H ~}$ | $\mathbf{2}=$ MEDIUM | $\mathbf{1}=$ LOW |  |  |$\quad \mathbf{0}=$ NEGLIGIBLE


| ASBESTOS TYPE |  |  |
| :---: | :---: | :---: |
| $\mathbf{3}=\mathbf{H I G H}$ | $\mathbf{2 ~ = ~ M E D I U M ~}$ | $\mathbf{1}=$ LOW |
| Crocidolite | Amphiboles excluding <br> Crocidolite | Chrysotile |


|  | ACCESS |
| :---: | :---: |
| $\mathbf{1}$ | Asbestos material not readily accessible e.g. Roof space, duct |
| $\mathbf{2}$ | Asbestos material more likely to be accessed but not in areas of high <br> usage |
| $\mathbf{3}$ | e.g. Cleaners cupboards, Fuel stores, |

## ACTION PRIORITY

Multiply the result of the material assessment algorithm by the access number to attain action priority figure The Action Priority is a guide for those managing the asbestos materials identified in this report. It is not included in the UKAS Accreditation held by BDA Surveying Ltd

| Low | 14 and Lower |  |
| :---: | :---: | :---: |
| Medium | 15 to 20 |  |
| High | Above 20 |  |
| LOW | MEDIUM | HIGH |
| Presents a low asbestos risk during normal use of the building, may require consideration during refurbishment or repair work | Does not present immediate risk but remedial works required i.e. encapsulation or labelling that should be included in asbestos management plan and instigated within reasonable timescale | Significant asbestos risk Immediate action required i.e. prohibit access to affected area. |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building Number | Room Number | Area Ref: | Building Component | Area Affected | Sample Number | Analysis Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 01/5 | Lift motor - may contain concealed asbestos rope \& gaskets | Roof Space/Lift Machine Room | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 01/6 | Electrical switchgear may contain concealed asbestos flashguards | Roof Space/Lift Machine Room | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 02/2 | Textured coating to walls | Stairwell | SP/16621 | Chrysotile | Manage |
| N/A | N/A | 02/10 | Textured coating to walls | Stairwell | As SP/16621 | Chrysotile | Manage |
| N/A | N/A | 10/8 | Skylights - may contain concealed asbestos rope seals | Call Centre | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 11/5 | Electrical switchgear may contain concealed asbestos flashguards | Electric Cupboard | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 17/9 | Gasket | Stairwell | As SP/16632 | Chrysotile | Manage |
| N/A | N/A | 22/7 | Electrical switchgear may contain concealed asbestos flashguards | Lift Motor Room | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 25/6 | Stair nosing | Stairwell/ Lift Lobby | SP/16624 | Chrysotile | Manage |
| N/A | N/A | 35/2 | Textured coating to walls | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16621 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 35/7 | Riser | Stairwell | SP/16625 | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 35/8 | Staircase column | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16621 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 36/3 | Light grey floor tile | Lobby | SP/16626 | Chrysotile | Manage |
| N/A | N/A | 37/3 | Light grey floor tile | WC | $\begin{gathered} \text { As } \\ \text { SP/16626 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 37/6 | Cistern | WC | SP/16628 | Crocidolite Amosite | Manage |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building <br> Number | Room <br> Number | Area <br> Ref: | Building <br> Component | Area <br> Affected | Sample <br> Number | Analysis <br> Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | $39 / 3$ | Vinyl floor | Store | SP/16629 | Chrysotile | Manage |
| N/A | N/A | $41 / 6$ | Heaters - may <br> contain <br> concealed <br> asbestos rope <br> seals | Library | N/A | Presumed <br> Chrysotile | Manage |
| N/A | N/A | $41 / 10$ | Columns x7 | Library | As <br> SP/16625 | Amosite <br> Chrysotile | Encapsulate |
| or overboard |  |  |  |  |  |  |  |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building Number | Room | Area Ref: | Building Component | Area Affected | Sample Number | Analysis Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 59/6 | Stair nosing | Stairwell/ Lift Lobby | $\begin{gathered} \text { As } \\ \text { SP/16624 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 62/2 | Textured coating to walls | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16621 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 62/6 | Riser | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16629 } \end{gathered}$ | Chrysotile | Encapsulate or overboard |
| N/A | N/A | 63/3 | Vinyl floor |  <br> Baby <br> Room | $\begin{gathered} \text { As } \\ \text { SP/16629 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 63/10 | Upstand to suspended ceiling | Parent \& Baby Room | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 63/11 | Debris above suspended ceiling | Parent \& Baby Room | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Remove |
| N/A | N/A | 65/7 | High level heaters - may contain concealed asbestos ropes and gaskets | Library | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 66/3 | Vinyl floor | Store | $\begin{gathered} \text { As } \\ \text { SP/16629 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 66/5 | Electrical switchgear may contain concealed asbestos flashguards | Store | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 67/8 | Heaters - may contain concealed asbestos ropes and gaskets | Library | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 67/9 | Columns x7 | Library | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 67/13 | Upstands to suspended ceiling | Library | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 67/17 | Debris above suspended ceiling | Library | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Remove |
| N/A | N/A | 68/5 | Riser | Lift Lobby | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 69/5 | Gasket | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16632 } \end{gathered}$ | Chrysoitle | Manage |
| N/A | N/A | 70/3 | Vinyl floor | Store | $\begin{gathered} \text { As } \\ \text { SP/16629 } \end{gathered}$ | Chrysotile | Manage |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building Number | Room Number | Area Ref: | Building Component | Area Affected | Sample Number | Analysis Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 70/7 | Upstand to suspended ceiling | Store | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 71/5 | Heater - may contain concealed asbestos rope \& gaskets | Office | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 71/10 | Upstands to suspended ceiling | Office | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 72/6 | Columns | Library | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 72/8 | Heaters - may contain concealed asbestos rope \& gaskets | Library | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 72/11 | Upstands to suspended ceiling | Library | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 78/7 | Textured coating to ceiling | Disabled WC | $\begin{gathered} \text { As } \\ \text { SP/16637 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 78/8 | Textured coating to walls | Disabled WC | $\begin{gathered} \text { As } \\ \text { SP/16637 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 79/6 | Textured coating to ceiling | Library Comms Room | $\begin{gathered} \text { As } \\ \text { SP/16637 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 79/8 | Textured coating to walls | Library Comms Room | $\begin{gathered} \text { As } \\ \text { SP/16637 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 79/9 | Textured coating | Library Comms Room | $\begin{gathered} \text { As } \\ \text { SP/16637 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 80/1 | Textured coating to ceiling | Comms Room | $\begin{gathered} \text { As } \\ \text { SP/16637 } \end{gathered}$ | Chrysotile | Encapsulate or overboard |
| N/A | N/A | 80/2 | Textured coating to walls | Comms Room | $\begin{gathered} \text { As } \\ \text { SP/16637 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 80/5 | Electrical switchgear may contain concealed asbestos flashguards | Comms Room | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 82/5 | Stair nosing | Stairwell | $\begin{gathered} \text { AS } \\ \text { SP/16624 } \end{gathered}$ | Chrysotile | Manage |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building Number | Room Number | Area Ref: | Building Component | Area Affected | Sample Number | Analysis Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 85/2 | Textured coating to walls | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16621 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 86/2 | Textured coating to walls | Store | $\begin{gathered} \text { As } \\ \text { SP/16621 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 92/3 | Vinyl floor | Store | $\begin{gathered} \text { As } \\ \text { SP/16629 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 92/5 | Electrical switchgear may contain concealed asbestos flashguards | Store | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 98/5 | Gasket | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16632 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 101/5 | Stair nosing | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16624 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 103/6 | Electrical switchgear may contain concealed asbestos flashguards | Copier Room \& Cupboard | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 104/5 | Electrical switchgear may contain concealed asbestos flashguards | Electrical Cupboard | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 106/2 | Textured coating to walls | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16621 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 108/15 | Column | Public Library | SP/16640 | Amosite Chrysotile | Manage |
| N/A | N/A | 109/9 | Electrical switchgear may contain concealed asbestos flashguards | Lift Lobby | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 109/11 | Ceiling above suspended ceiling | Lift Lobby | BN/15357 | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 111/5 | Gasket | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16632 } \end{gathered}$ | Chrysotile | Manage |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building Number | Room Number | Area Ref: | Building Component | Area Affected | Sample Number | Analysis Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 127/5 | Electrical switchgear may contain concealed asbestos flashguards | Electrical Cupboards | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 129/5 | Electrical switchgear may contain concealed asbestos flashguards | Electrical Cupboard | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 130/9 | Electrical switchgear may contain concealed asbestos flashguards | Post Room | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 130/10 | Large stand alone heater may contain concealed asbestos rope and gaskets | Post Room | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 130/11 | High level heater - may contain concealed asbestos rope and gaskets | Post Room | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 131/8 | Electrical switchgear may contain concealed asbestos flashguards | Store | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 133/3 | Grey floor tile and adhesive | Female WC | SP/16644 | Chrysotile | Manage |
| N/A | N/A | 133/6 | High level cistern | Female WC | $\begin{gathered} \text { As } \\ \text { SP/16628 } \end{gathered}$ | Crocidolite Amosite | Manage |
| N/A | N/A | 133/13 | Upstand to suspended ceiling | Female WC | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | Amosite Chrysotile | Encapsulate or overboard |
| N/A | N/A | 134/2 | Textured coating to walls | Loading Bay | SP/16645 | Chrysotile | Manage |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building Number | Room Number | Area Ref: | Building Component | Area Affected | Sample Number | Analysis Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 134/8 | Textured coating | Loading Bay | $\begin{gathered} \text { As } \\ \text { SP/16645 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 134/12 | Electrical switchgear may contain concealed asbestos flashguards | Loading Bay | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 136/3 | Green vinyl | Stairwell | SP/16646 | Chrysotile | Manage |
| N/A | N/A | 136/5 | Stair nosing | Stairwell | $\begin{gathered} \text { As } \\ \text { SP/16624 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 140/3 | Beige floor tiles and adhesive | Stairwell (to Basement) | SP/16647 | Chrysotile | Manage |
| N/A | N/A | 140/5 | Stair nosing | Stairwell (to Basement) | $\begin{gathered} \text { As } \\ \text { SP/16624 } \end{gathered}$ | Chrysotile | Manage |
| N/A | N/A | 142/7 | Debris to walls | Boiler Room and Lobby | SP/16651 | Crocidolite Amosite Chrysotile | Remove |
| N/A | N/A | 142/12 | Redundant boiler - may contain concealed asbestos rope and gaskets | Boiler Room and Lobby | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 142/15 | Electrical switchgear may contain concealed asbestos flashguards | Boiler Room and Lobby | N/A | Presumed Crocidolite | Manage |
| N/A | N/A | 143/5 | Gasket to pipes | Gas Cupboard | SP/16654 | Chrysotile | Manage |
| N/A | N/A | 146/5 | Heaters - may contain concealed asbestos rope \& gaskets | Stores | N/A | Presumed Chrysotile | Manage |
| N/A | N/A | 146/6 | Electrical switchgear may contain concealed asbestos flashguards | Stores | N/A | Presumed Crocidolite | Manage |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building <br> Number | Room <br> Number | Area <br> Ref: | Building <br> Component | Area <br> Affected | Sample <br> Number | Analysis <br> Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | $146 / 7$ | Bitumen wrap <br> to cable | Stores | N/A | Presumed <br> Chrysotile | Manage |
| N/A | N/A | $147 / 5$ | Bitumen wrap | Store | N/A | Presumed <br> Chrysotile | Manage |
| N/A | N/A | $148 / 5$ | Gaskets to <br> pipes | Store | As <br> SP/16654 | Chrysotile | Manage |
| N/A | N/A | $152 / 5$ | Electrical <br> may contain <br> concealed <br> asbestos <br> flashguards | Store | N/A | Presumed <br> Crocidolite | Manage |
| N/A | N/A | $154 / 5$ | Flue | Small <br> Boiler Room | BN/15251 | Chrysotile | Manage |
| N/A | N/A | $154 / 7$ | Gaskets to <br> pipes | Small Boiler |  |  |  |
| Room | SP/16654 | Chrysotile | Manage |  |  |  |  |
| N/A | N/A | $154 / 10$ | Electrical <br> switchgear- <br> may contain <br> concealed <br> asbestos <br> flashguards | Small | Noiler Room | N/A | Presumed <br> Crocidolite |
| N/A Manage |  |  |  |  |  |  |  |
| N/A | N/A | $156 / 9$ | Electrical <br> switchgear- <br> may contain <br> concealed <br> asbestos <br> flashguards | Store | N/A | Presumed <br> Crocidolite | Manage |
| N/A | $161 / 1$ | N/A | $159 / 5$ | Gasket | Stairwell | As | SP/16632 |

13.0 TABLE 1A: ASBESTOS REGISTER

| Building <br> Number | Room <br> Number | Area <br> Ref: | Building <br> Component | Area <br> Affected | Sample <br> Number | Analysis <br> Result | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | $161 / 6$ | Leaters - may <br> contain <br> concealed <br> asbestos rope <br> \& gaskets | Main <br> Basement | N/A | Presumed <br> Chrysotile | Manage |
| N/A | N/A | $161 / 10$ | Debris on top <br> of ducting | Main <br> Basement | As <br> BN/15253 | Amosite <br> Chrysotile | Remove |
| N/A | N/A | $161 / 11$ | Packer <br> between pipe <br> and ceiling | Main <br> Basement | As <br> BN/15253 | Amosite <br> Chrysotile | Encapsulate <br> or <br> overboard |
| N/A | N/A | $166 / 6$ | Heaters -may <br> contain <br> concealed <br> asbestos rope <br> \& gaskets | Store | N/A | Presumed <br> Chrysotile | Manage |
| N/A | N/A | $166 / 7$ | Electrical <br> switchgear- <br> may contain <br> concealed <br> asbestos <br> flashguards | Store | N/A | Presumed <br> Crocidolite | Manage |
| N/A | N/A | $168 / 8$ | Electrical <br> switchgear- <br> may contain <br> concealed <br> asbestos <br> flashguards | Lift Motor | Room | N/A | Presumed <br> Crocidolite |
| Manage |  |  |  |  |  |  |  |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 02/8 | High level boxing | Plaster - no access to inspect behind |
| N/A | N/A | 03/5 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 04/5 | Riser and low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 04/6 | Riser and high level boxing | Wood - no access to inspect behind |
| N/A | N/A | 04/7 | Riser | Wood and plaster - no access to inspect behind |
| N/A | N/A | 06/5 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 06/7 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 06/8 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 07/5 | Riser and high level boxing | Wood - no access to inspect behind |
| N/A | N/A | 07/6 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 08/6 | Riser | Wood and plaster - no access to inspect behind |
| N/A | N/A | 08/7 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 08/8 | Large riser | Wood - no access to inspect behind |
| N/A | N/A | 10/6 | Bulkheads | Plaster - no access to inspect behind |
| N/A | N/A | 10/10 | Panels to walls | Wood - no access to inspect behind |
| N/A | N/A | 11/6 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 12/5 | Low level boxing | Plaster - no access to inspect behind |
| N/A | N/A | 12/6 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 14/6 | Door to lift motor room | Locked - no key |
| N/A | N/A | 15/5 | High level panel | Wood - no access to inspect behind |
| N/A | N/A | 15/6 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 15/7 | Lift shafts | No access to inspect |
| N/A | N/A | 16 | All areas | No access to inspect |
| N/A | N/A | 17/6 | High level boxing | Plaster and wood - no access to inspect behind |
| N/A | N/A | 17/7 | Low level boxing | Plaster - no access to inspect behind |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 17/8 | Boxing | Plaster - no access to inspect behind |
| N/A | N/A | 18/5 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 18/6 | Panels to walls | Wood - no access to inspect behind |
| N/A | N/A | 19/5 | Panels to walls | Wood - no access to inspect behind |
| N/A | N/A | 19/6 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 23/5 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 23/7 | Risers and boxing | Wood - no access to inspect behind |
| N/A | N/A | 23/8 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 25/5 | Lift shaft | No access to inspect |
| N/A | N/A | 28/6 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 28/7 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 35/6 | Lift shaft | No access to inspect |
| N/A | N/A | 35/9 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 37/8 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 40/6 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 41/5 | Low level boxing | Wood - limited access to inspect |
| N/A | N/A | 41/7 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 41/8 | High level boxing x3 | Wood - no access to inspect behind |
| N/A | N/A | 41/9 | Vents/ducting x3 | Metal - no access to inspect behind |
| N/A | N/A | 41/12 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 41/13 | Boxing | Wood - no access to inspect behind |
| N/A | N/A | 42/6 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 43/2 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 45/5 | Lift shaft | No access to inspect |
| N/A | N/A | 47/6 | Low level boxing | Wood - no access to inspect behind |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 47/7 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 48/1 | Ceiling | Plaster - no access to inspect above |
| N/A | N/A | 49/7 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 51/5 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 51/8 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 51/10 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 53/5 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 58/5 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 59/5 | Lift shaft | No access to inspect |
| N/A | N/A | 61/5 | Riser and boxing | Wood - no access to inspect behind |
| N/A | N/A | 61/6 | Boxing | Wood and tiled - no access to inspect behind |
| N/A | N/A | 61/7 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 61/9 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 61/10 | Void | Wood - no access to inspect behind |
| N/A | N/A | 62/10 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 63/6 | Riser x1 | Wood - no access to inspect behind |
| N/A | N/A | 63/7 | Riser x1 | Plaster - no access to inspect behind |
| N/A | N/A | 63/8 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 65/8 | Fire hose | Metal boxing - no access to inspect behind |
| N/A | N/A | 67/5 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 67/6 | Riser x2 | Wood - no access to inspect behind |
| N/A | N/A | 68/6 | Dry riser | Wood - no access to inspect behind |
| N/A | N/A | 68/7 | Lift shafts | No access to inspect |
| N/A | N/A | 68/8 | Boxing | Wood - no access to inspect behind |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 68/9 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 68/11 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 71/6 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 72/5 | Low level boxing and riser | Wood - no access to inspect behind |
| N/A | N/A | 72/13 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 73/2 | Wood panelling | No access to inspect behind |
| N/A | N/A | 73/5 | Boxing | Wood - no access to inspect behind |
| N/A | N/A | 73/6 | Low level ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 73/7 | Door surround | Plaster - no access to inspect behind |
| N/A | N/A | 74 | All areas | Blocked up - no access to inspect |
| N/A | N/A | 75/5 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 75/6 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 75/8 | High level panels to walls | Wood - no access to inspect behind |
| N/A | N/A | 75/9 | Low level ceiling | Wood - no access to inspect above |
| N/A | N/A | 75/10 | Riser | Wood/tiled - no access to inspect behind |
| N/A | N/A | 76/5 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 77/9 | Boxing | Wood - no access to inspect behind |
| N/A | N/A | 79/5 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 80/2 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 81/5 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 82/7 | Lift shaft | No access to inspect |
| N/A | N/A | 85/5 | Column cladding | Wood - no access to inspect behind |
| N/A | N/A | 85/7 | Partition walls | Wood - no access to inspect behind |
| N/A | N/A | 85/8 | Riser | Wood - no access to inspect behind |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 85/11 | Bulkheads above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 86/1 | Ceiling | Stored items - no access to inspect |
| N/A | N/A | 86/5 | Bulkhead | Stored items - no access to inspect |
| N/A | N/A | 86 | All areas | Stored items - very limited access to inspect |
| N/A | N/A | 87/5 | Boxing x2 | Wood - no access to inspect behind |
| N/A | N/A | 88/5 | Riser and boxing | Wood - no access to inspect behind |
| N/A | N/A | 88/9 | Riser | Plaster and wood - no acces to inspect behind |
| N/A | N/A | 88/10 | Boxing (behind sink) | Wood - no access to inspect behind |
| N/A | N/A | 90/6 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 90/8 | Large thin riser | Plaster - no access to inspect behind |
| N/A | N/A | 90/9 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 90/12 | Boxing behind heaters | Wood - no access to inspect behind |
| N/A | N/A | 92/6 | Bulkhead | Plaster - no access to inspect behind |
| N/A | N/A | 93/7 | Column cladding | Wood - no access to inspect behind |
| N/A | N/A | 93/9 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 93/10 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 93/13 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 93/14 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 93/15 | Column cladding x 2 | Plaster - no access to inspect behind |
| N/A | N/A | 93/19 | Bulkheads above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 94/6 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 94/10 | Bulkheads above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 95/7 | Riser boxing | Plaster - no access to inspect behind |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 95/8 | Boxing | Plaster - no access to inspect behind |
| N/A | N/A | 95/12 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 96/5 | Lift shaft | No access to inspect |
| N/A | N/A | 96/6 | Column | Plaster - no access to inspect behind |
| N/A | N/A | 96/7 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 96/8 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 97/5 | High level boxing | Plaster - no access to inspect behind |
| N/A | N/A | 99/6 | Lift shaft | No access to inspect |
| N/A | N/A | 99/7 | Panelling to staircase | Plaster - no access to inspect behind |
| N/A | N/A | 99/8 | Low level ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 101/6 | Lift shaft | No access to inspect |
| N/A | N/A | 103/5 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 105/5 | Panel to wall | Wood - no access to inspect behind |
| N/A | N/A | 105/6 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 106/9 | Above suspended ceiling | Height above stairs - limited access to inspect |
| N/A | N/A | 107/7 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 108/7 | Riser x 2 | Wood - no access to inspect behind |
| N/A | N/A | 108/8 | Panel under radiators | Metal - no access to inspect behind |
| N/A | N/A | 108/10 | Panels to underside of stairs | Wood - no access to inspect behind |
| N/A | N/A | 108/11 | Lift shaft | No access to inspect |
| N/A | N/A | 108/12 | Partition walls | Plaster - no access to inspect behind |
| N/A | N/A | 108/13 | Ramp | Wood and carpet - no access to inspect behind |
| N/A | N/A | 108/14 | Low level cladding to windows | Wood - no access to inspect behind |
| N/A | N/A | 108/17 | Boxing and columns to ramp | Plaster - no access to inspect behind |
| N/A | N/A | 108/19 | Bulkheads above suspended ceiling | Plaster - no access to inspect behind |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 109/5 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 109/6 | Lift shafts | No access to inspect |
| N/A | N/A | 109/7 | Riser x3 | Metal - no access to inspect behind |
| N/A | N/A | 109/8 | Window soffit | Metal - no access to inspect behind |
| N/A | N/A | 109/13 | Bulkhead | Plaster - no access to inspect behind |
| N/A | N/A | 110/5 | Column/riser x2 | Plaster and wood - no access to inspect behind |
| N/A | N/A | 110/6 | Window soffits | Plaster and metal - no access to inspect behind |
| N/A | N/A | 110/7 | Bulkhead | Plaster - no access to inspect behind |
| N/A | N/A | 110/9 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 112/1 | Bulkhead | Stored items- no access to inspect |
| N/A | N/A | 113/11 | Columns | Plaster - no access to inspect behind |
| N/A | N/A | 114/10 | Column | Plaster - no access to inspect behind |
| N/A | N/A | 115/10 | Column | Plaster - no access to inspect behind |
| N/A | N/A | 116/10 | Column | Plaster - no access to inspect behind |
| N/A | N/A | 117/5 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 117/10 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 117/11 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 118/5 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 119/9 | High level boxing above suspended ceiling | No access to inspect |
| N/A | N/A | 120/10 | High level boxing | Plaster - no access to inspect behind |
| N/A | N/A | 125/7 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 125/8 | High level boxing | Wood - no access to inspect behind |
| N/A | N/A | 126/6 | High level boxing | Plaster - no access to inspect behind |
| N/A | N/A | 126/7 | Lift shaft | No access to inspect |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building Number | Room number | Area Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 126/8 | Boxing | Plaster and wood - no access to inspect behind |
| N/A | N/A | 126/10 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 127/6 | Riser | Wood/plaster - no access to inspect behind |
| N/A | N/A | 128/6 | Bulkhead | Plaster - no access to inspect behind |
| N/A | N/A | 128/7 | Partition wall | Plaster - no access to inspect behind |
| N/A | N/A | 130/7 | Lift shaft | No access to inspect |
| N/A | N/A | 130/8 | Ramp | Wood and modern vinyl - no access to inspect behind |
| N/A | N/A | 133/5 | Risers x 2 | Wood - no access to inspect behind |
| N/A | N/A | 133/8 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 133/9 | Low level cistern | Wood boxing - no access to inspect inside |
| N/A | N/A | 133/15 | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |
| N/A | N/A | 134/5 | Raised floor | Wood and light grey vinyl - no access to inspect behind |
| N/A | N/A | 136/7 | Lift shaft | No access to inspect |
| N/A | N/A | 136/9 | Panel to wall | Wood - no access to inspect behind |
| N/A | N/A | 137/6 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 137/11 | Riser | Plaster - no access to inspect behind |
| N/A | N/A | 138/6 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 138/7 | Riser | Wood - no access to inspect behind |
| N/A | N/A | 142/6 | Floor ducts | No access to inspect |
| N/A | N/A | 143/1 | Ceiling | No ladder access - no access to inspect |
| N/A | N/A | 145 | All areas | No key avavilable - no access to inspect |
| N/A | N/A | 146/10 | Lift shaft | No access to inspect |
| N/A | N/A | 148/9 | High level hatch to wall | No ladder access - no access to inspect behind |
| N/A | N/A | 156/2 | Wood panelling | No access to inspect behind |
| N/A | N/A | 156/7 | Low level boxing | Wood - no access to inspect behind |
| N/A | N/A | 156/8 | Small riser | Wood - no access to inspect behind |

### 14.0 TABLE 1B: INACCESSIBLE AREAS

| Building <br> Number | Room <br> number | Area <br> Ref: | Building Component | Reason for no access |
| :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | $157 / 5$ | Bulkhead | Plaster - no access to inspect <br> behind |
| N/A | N/A | $157 / 7$ | Partition wall | Plaster - no access to inspect <br> behind |
| N/A | N/A | $157 / 8$ | Riser | Plaster - no access to inspect <br> behind |
| N/A | N/A | $158 / 5$ | Partition wall | Plaster - no access to inspect <br> behind |
| N/A | N/A | $158 / 6$ | Lift shaft | No access to inspect |
| N/A | N/A | $160 / 8$ | High level boxing | Plaster - no access to inspect <br> behind |
| N/A | N/A | $161 / 12$ | Lift shaft | No access to inspect |
| N/A | N/A | $162 / 6$ | Column cladding x3 | Plaster - no access to inspect <br> behind |
| N/A | N/A | $162 / 7$ | Riser | Plaster - no access to inspect <br> behind |
| N/A | N/A | $166 / 8$ | Columns x3 | Plaster - no access to inspect <br> behind |
| N/A | N/A | $166 / 10$ | Small columns | Plaster - no access to inspect <br> behind |
| N/A | N/A | 166 | All areas | Book shelves - limited access to <br> inspect |
| N/A | N/A | $168 / 6$ | High level boxing x2 | Metal and wood - no access to <br> inspect behind |
| N/A | N/A | $170 / 5$ | Flat roof area | No access to inspect |
|  |  |  |  |  |

## NOTE:

Inaccessible areas must be presumed to contain asbestos containing materials. If access is required into the areas described above during future repair/refurbishment works further inspection for the presence of asbestos will need to be carried out prior to the works commencing.

### 15.0 TABLE 1C: NON DETECTED TABLE

$\left.$| Building <br> Number | Room <br> number | Area <br> Ref: | Building <br> Component | Area <br> Affected | Sample <br> Number | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | $04 / 8$ | Boxing | Male WC | SP/16622 | No action <br> required |
| N/A | N/A | $04 / 9$ | Debris in boxing | Male WC | As <br> SP/16622 | No action <br> required |
| N/A | N/A | $25 / 3$ | Grey vinyl | Stairwell/Lift <br> Lobby | SP/16623 | No action <br> required |
| N/A | N/A | $37 / 5$ | Grey floor tile | WC | SP/16627 | No action <br> required |
| N/A | N/A | $40 / 7$ | Textured <br> coating to <br> column | Library | SP/16630 | No action <br> required |
| N/A | N/A | $41 / 17$ | Debris to RSJ's | Library | BN/15356 | No action <br> required |
| N/A | N/A | $54 / 3$ | Vinyl floor | Store | SP/16633 | No action <br> required |
| N/A | N/A | $55 / 5$ | Loose boards | Electric <br> Cupboard | SP/16638 | No action <br> required |
| N/A | N/A | $59 / 3$ | Grey vinyl | Stairwell/Lift | As <br> Lobby | SP/16623 | | No action |
| :---: |
| required | \right\rvert\,

### 15.0 TABLE 1C: NON DETECTED TABLE

| Building Number | Room number | Area Ref: | Building Component | Area Affected | Sample Number | Action |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| N/A | N/A | 129/3 | Light grey vinyl | Electric Cupboard | $\begin{gathered} \text { As } \\ \text { SP/16641 } \end{gathered}$ | No action required |
| N/A | N/A | 130/3 | Light grey vinyl | Post Room | $\begin{gathered} \text { As } \\ \text { SP/16641 } \end{gathered}$ | No action required |
| N/A | N/A | 130/5 | ```Partition wall/board to door``` | Post Room | SP/16643 | No action required |
| N/A | N/A | 131/3 | Light grey vinyl | Store | $\begin{gathered} \text { As } \\ \text { SP/16641 } \end{gathered}$ | No action required |
| N/A | N/A | 131/5 | Partition walls and door | Store | $\begin{gathered} \text { As } \\ \text { SP/16643 } \end{gathered}$ | No action required |
| N/A | N/A | 131/6 | Panel to column | Store | $\begin{gathered} \text { As } \\ \text { SP/16643 } \end{gathered}$ | No action required |
| N/A | N/A | 134/5 | Light grey vinyl | Loading Bay | $\begin{gathered} \text { As } \\ \text { SP/16641 } \end{gathered}$ | No action required |
| N/A | N/A | 140/6 | Skirting to staircase | Stairwell (to Basement) | SP/16648 | No action required |
| N/A | N/A | 142/1 | Spray coating to ceiling | Boiler and Lobby | SP/16649 | No action required |
| N/A | N/A | 142/2 | Over spray | Boiler and Lobby | $\begin{gathered} \text { As } \\ \text { SP/16649 } \end{gathered}$ | No action required |
| N/A | N/A | 142/4 | Pipe lagging | Boiler and Lobby | SP/16650 | No action required |
| N/A | N/A | 142/5 | Over spray | Boiler and Lobby | $\begin{gathered} \text { As } \\ \text { SP/16649 } \end{gathered}$ | No action required |
| N/A | N/A | 142/8 | Pipe insulation | Boiler and Lobby | SP/16652 | No action required |
| N/A | N/A | 142/9 | Debris on high level ledge | Boiler and Lobby | $\begin{gathered} \text { As } \\ \text { SP/16649 } \end{gathered}$ | No action required |
| N/A | N/A | 142/11 | Debris to floor | Boiler and Lobby | SP/16653 | No action required |
| N/A | N/A | 148/10 | Boards to ceiling | Store | $\begin{gathered} \text { As } \\ \text { SP/16655 } \end{gathered}$ | No action required |
| N/A | N/A | 149/5 | High level boards to ceiling | Store | SP/16655 | No action required |
| N/A | N/A | 150/5 | Board to door | Cupboard | $\begin{gathered} \text { As } \\ \text { SP/16655 } \end{gathered}$ | No action required |
| N/A | N/A | 154/9 | Debris to wall | Small Boiler Room | SP/16656 | No action required |
| N/A | N/A | 156/1 | Fibre board and skim ceiling tile | Store | BN/15255 | No action required |
| N/A | N/A | 160/4 | Debris to pipes | Plant Room | BN/15358 | No action required |
| N/A | N/A | 161/7 | Column cladding | Main Basement | BN/15254 | No action required |
|  |  |  |  |  |  |  |

## SECTION

## SURVEY EVALUATION

## DATA SHEETS

|  |  |  |  |  |  |  |  |  | әдq！ן ןеләu！̣ әреш әи！чэеш 8 pıeoqıə⿰丬seld |  |  |  | L／LO | ```mooy әแ!чэеW H!/\mp@code{oeds} f00y``` | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ə6euew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV |  | леәбчэฺ！мм <br>  | 200 | $\forall / \mathrm{N}$ | 9／L0 | mooy əu！̣วセW ！ fooy | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\downarrow$ | † | $\downarrow$ | $\downarrow$ | 0 | 乙 | HO L |  | ı0ı0以 | 100 | $\forall / \mathrm{N}$ | G／LO | mooy әи！̣วセW ！ f00y | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pә66eןun 8 pəsodxヨ | Yıомəd！d |  |  | ー／レO |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | 10013 |  |  | ع／LO |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | yว！ıg | S\｜EM |  |  | Z／LO |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | нә！я роом ‘әдq！ ןеләи！ш әреш əu！̣ગеш ‘גəəse｜d | 6u！！！əつ |  |  | L／LO | mooy əu！чวеW н！ᄀ／əoeds f00Y | $\forall / \mathrm{N}$ |
| uo！̣จ | Kuoud uo！lov | ssəววト | 2ı03S | $\begin{gathered} ə d K_{\perp} \\ \text { solsəqs } \forall \end{gathered}$ | ןеә」」 әэeцй | meg | ${ }^{2 d} K_{\perp}$ <br> pold | WOn дueno | uo！̣d！̣əsə | ұuәuodmoう 6u！p！！ing |  | fəy əઇdues | ıəqunn fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：əpę LGZ00／IJ／VW／OON ：ON uodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  бu！̣оң！uou бu！̣об－ио səŋеэ！pu！」əqu＊ |  |  |  |  |  |



|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pu!yəq loədsu! } \\ & \text { ol ssəove } \\ & \text { ou - poom } \end{aligned}$ | бu！̣xoq｜əлә цర！！ 8 गəs！y |  |  | 9／ヤ0 | ОМ өાеW | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！чəq łəədsu！ 아 ssəoวe ou－poom | 6u！̣xoq｜əлә｜ MOI 8 ১əS！ |  |  | S／t0 | ОМ әృеW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> » pəsodxヨ | yı0Məd！d |  |  | ャ／カ0 | ОМ әાеW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | 100｜」 |  |  | $\varepsilon / \downarrow 0$ | OM әృеW | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | รə！！ગ！யயләว <br>  | S\｜PM |  |  | 乙／ヤ0 | ОМ әృеW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！əдq！！ןеләu！̣ әреш әи！чэеш | 6u！！！əつ |  |  | レ／ヤ0 | ОМ өાеW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！чəq łəədsu！ <br> 아 Ssəวગe <br> ou－גəłseld | Jəs！${ }^{\text {d }}$ |  |  | G／EO | Кqqоך $\bigcirc M$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> » pəsodxヨ | yıOMəd！d |  |  | ャ／EO | Кqq07 ОM | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əədıeэ 8 poom | 100｜」 |  |  | $\varepsilon / \varepsilon 0$ | Kqqo $\bigcirc \bigcirc$ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ıəıseld | S\｜eM |  |  | 乙／E0 | Кqq07 ОM | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！əつ |  |  | L／EO | Kqqo $\bigcirc \bigcirc$ | $\forall / N$ |
| ә6euew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | z ${ }^{\text {W OZ }}$ | ә！！озイıиコ－ бu！̣еоэ рәınұхәұ 8 dəlseld | 6u！xog | $\varepsilon 00$ | $\begin{gathered} \text { LZ99l/dS } \\ s \forall \end{gathered}$ | OL／Z0 | ｜｜əMLIEIS | $\forall / \mathrm{N}$ |
| uo！̣จ | Kıund uo！วヲ | ssəวગヤ | əı03S | ədK」 solssəqS $\forall$ | †еә」」 әэеนй | mer | $\partial \mathrm{d} K_{\perp}$ pold | WOn aueno | uo！̣d！̣əsə］ | ұuәuodmoう 6u！p！！ng | 1əy oloud | fəy әןdues | $\begin{aligned} & \text { лəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9レ：əృeØ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәı！̣nbə» s！ұиәшәбеиеш бu！̣ои！！uou bu！̣об－uо səןฺэ！pu！」əqu＊ |  |  | pəı！̣nbəд s！ <br>  |  |  |  |


|  |  |  |  |  |  |  |  |  | sə｜！Əıq！ әреш ə | 6u！！！əつ |  |  | L／90 | əฉนəつ ॥еう | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pə6k } \\ & \text { 8 pəs } \end{aligned}$ | yıoməd！d |  |  | ヤ／G0 | ｜｜əMıIEIS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Ә્ృӘゝ | 100｜」 |  |  | ع／G0 | ｜｜əMıIEIS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | Youq 8 | S\｜eM |  |  | Z／G0 | ｜｜əMLIEIS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | 6u！！！əつ |  |  | L／G0 | ｜｜əMıIEIS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  | てレ／カ0 | ЭМ ӘГ¢ | V／N |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pə66 } \\ & \text { » pəs } \end{aligned}$ | 6u！！！əつ pəpuədsns әлоqе уломәd！d |  |  | レレ／カ0 | ОМ әеW | V／N |
|  |  |  |  |  |  |  |  |  | 1 JıS | 6u！！！əコ pəpuədsns əлоqе 6u！！！əつ |  |  | OL／カ0 | ОМ әృеW | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | $\varepsilon$ | $\downarrow$ | IIV |  | 6u！xoq u！s！̣qəด | $\forall / \mathrm{N}$ | $\begin{gathered} \text { zZ99l/dS } \\ s \forall \end{gathered}$ | 6／ヤ0 | ОМ әృеW | V／N |
|  |  | $\varepsilon$ |  | QN | 0 | 乙 | $\downarrow$ | サO V |  | 6uixog | V／N | ZZ991／dS | 8／ヤ0 | ОМ өાеW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq <br> 아 SSəつ૭ <br> ıəłseןd | Jəs！${ }^{\text {d }}$ |  |  | L／カ0 | ОМ әృеW | V／N |
| uo！̣ว | Kulud uо！̣ヲ | ssəวગヤ | Əı0ЈS | $ə \mathrm{~d} K_{\perp}$ solssəqS $\forall$ | †еә」」 әэецй | meg | $\begin{aligned} & \partial \mathrm{d} K_{\perp} \\ & \text { po,d } \end{aligned}$ | WOO fueno | uo！$\ddagger$ d！ | łuәuodmoう 6u！pp！！ng | foy ołOपd | よəy әઇdues | ıəquinN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：əןeQ LGZOO／IJ／VW／OON ：on Hodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！̣nbə» s！ұиәшәбеиеш бu！̣ои！！uou bu！̣об－uо səןฺэ！pu！」əqu＊ |  | pəı！̣nbəд s！ <br>  |  |  |  |


|  |  |  |  |  |  |  |  |  | poom | бu！！！əつ pəpuədsns ol spuełsdn |  |  | $\varepsilon L / 90$ | əฉนəว ॥еว | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxə ‘‘ŁəəW |  |  |  | てL／90 | əヱนəつ ॥อう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ pəpuədsns әлоqе 6u！！！əつ |  |  | レレ／90 | əヱนəつ ॥еว | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom | spunoıuns 1000 |  |  | 0L／90 | əヱนəつ ॥еう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ıəృseld | St！fos mopu！M |  |  | 6／90 | əฉนəว ॥еว | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq \supsetneqכədsu! O) SSəOOE ou - pOOM``` |  |  |  | 8／90 | əヱนəつ ॥อう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq łכədsu! Of ssəכวe ou - pooM``` | Jəs！${ }^{\text {d }}$ |  |  | L／90 | əヱนәつ ॥еう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | speәцжınq <br> 8 umnjoう |  |  | 9／90 | əヱนəว ॥еว | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ 아 SSəつગe ou－poom | 6u！xoq ןə＾ə МОך |  |  | S／90 | əฉนəว ॥еว | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | рәБ6еןun <br> 8 pəsodxヨ | yıOMəd！d |  |  | 七／90 | əヱนəつ ॥®つ | V／N |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom | 10013 |  |  | ع／90 | əцนəว ॥еว | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yכ！ıq＞ıəıseld | S\｜eM |  |  | 乙／90 | əцนวว ॥еว | $\forall / \mathrm{N}$ |
| uo！̣ヤヤ | Kuould uо！̣ァV | ssəวગ૪ | Əı03S | əd $K_{\perp}$ solsəqs $\forall$ | $\begin{gathered} \text { †еə』 } \\ \text { әэeرuns } \end{gathered}$ | meg | әdK」 pold | WOn aueno | uo！̣d！ussə | ұuәuodmoう 6u！p！！ng | Łəપ oloud | よəy әोdues | ıəqunN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L：ə尸匕 LGZOO／IJ／VW／OON ：ON Hodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәı！̣nbəィ s！ұиәшәбеиеш 6u！̣оұ！！uou бu！̣o6－uo sәןеэ！pu！ләqu＊ |  |  | pəı！̣nbəд s！ uо！̣эе ұецł sәəеэ！！pu！рәу |  |  |  |



|  |  |  |  |  |  |  |  |  | delseld |  | ұчб！！Куs 아 spuełsdの |  |  |  | L／OL | əヱนəつ ॥еう | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！чəq <br> 아 SSə <br> OU－Јə | $\begin{aligned} & \text { łכədsu! } \\ & \text { əכэe } \\ & \text { әłseld } \end{aligned}$ | speәчжıng |  |  |  | 9／01 | əયuəつ ॥еう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom |  | 6u！̣xoq ןəлә цઠ！！ |  |  |  | G／OL | əฉuəつ ॥еう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ |  | Yı0Məd！d |  |  |  | ャ／OL | əヱนəつ ॥еう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom |  | 1001」 |  |  |  | $\varepsilon / O 1$ | əયuəつ ॥еう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq＞delseld |  | S\｜PM |  |  |  | Z／OL | əฝนəつ ॥еว | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！əાq！！ןセıəu！u әреш әи！чэеш <br>  |  | 6u！！！əつ |  |  |  | L／OL | əヱนəつ ॥еう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | јuәsə』 sןе！ләдеш solsəqse ou－uגəpow |  | леәБчэџ！мм <br>  |  |  |  | 9／60 | pıeoqdnつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əqeэ！｜dde $\ddagger 0 \mathrm{~N}$ |  | yıомәd！d |  |  |  | 七／60 | paeoqdno | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıes 8 роом |  | ل100｜ |  |  |  | ع／60 | paeoqdno | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pıeoqu 8 ปə | әłse｜d seld | S\｜PM |  |  |  | Z／60 | pıeoqdnつ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  |  | 6u！！！əつ |  |  |  | L／60 | pıeoqdnつ | $\forall / \mathrm{N}$ |
| uo！̣จV | K！uould uo！̣ヲ | ssəวગヤ | əృОЈડ | ədK」 solsə ${ }^{\text {q．}} \forall$ | †еә」」 әэецй | meg | әdK」 pold | WOn łueno | uo！̣d！̣əsə |  | ¡uәuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy әઇயues |  | $\begin{aligned} & \text { Iəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！̣nbəл s！ұиәшәбеиеш бu！̣оң！uou бu！̣об－ио səృеэ！pu！」əqu＊ |  |  |  | рәц！̣nbəд s！ uо！̣эе ұецł sәəеэ！ри！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ | Yıомəd！d |  |  | ャルレ | pıeoqdnう ว！џヤƏコヨ | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | $\ddagger$ ə．dıes 8 poom | 100｜ |  |  | と／レレ | preoqdno ว！џっəコヨ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | Younq＞ıəpseld | S\｜EM |  |  | てノレレ | preoqdno ว！ฝગəコヨ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ |  |  | レ／レレ | preoqdno ว！џっәコヨ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әдq！ן ןеләu！u әреш әи！чэеW | 6u！！！əつ pəpuədsns əлоqе uoḷe｜nsua |  |  | マレ／Oレ | әฉนəつ ॥еว | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ןセ才əW | 6u！！！əつ pəpuədsns әлоqе бu！̣эnด |  |  | EL／OL | əฉนəつ ॥еว | V／N |
|  |  |  |  |  |  |  |  |  | ıəıseld |  |  |  | てL／OL | əцนəつ ॥еว | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | delseld | S！！Hos mopu！M |  |  | レレ／Oレ | əયนəつ ॥еう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pu!̣讯 łoədsu! } \\ & \text { of ssəכэe } \\ & \text { ou - poom } \end{aligned}$ | S\｜EM of spoued |  |  | OL／OL | əฉนəつ ॥еว | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | uләроW | SıU |  |  | 6／01 | əヱนəつ ॥еう | $\forall / N$ |
| ə6euew | MO7 | $\downarrow$ | † | $\downarrow$ | $\downarrow$ | 0 | 乙 | IIV |  pəunsəad <br> －sjeəs <br> ədoય solsəqse <br> рәјеәЈиоэ <br>  | SıU | ૪00 | $\forall / \mathrm{N}$ | 8／01 | әцนəつ ॥еว | $\forall / \mathrm{N}$ |
| uo！̣จV | K！uoud uо！̣ヲ | ssəวว૪ | əı03S | $\partial d K_{\perp}$ sOł̧əəqS甘 | †еә」」 әэセృй | meg | $\begin{aligned} & \partial \mathrm{d} \mathrm{~K}_{\perp} \\ & \text { pold } \end{aligned}$ | WOO fueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ing | fəy ołoud | fəy әןdues | 」əqunn †əy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：ə尸匕G LGZOO／İ／VW／OON ：ON Hodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meybu！ |  |  |  |  |  |  |  |  | рә』！！ бu！̣оң！uou бu！̣о－ио sәןеэ！pu！лəqu＊ |  |  | рәц！̣nbәл s！ uо！̣эe łецł səəеэ！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | 9！ıSejd 8 Poom | 1001」 |  |  | $\varepsilon / \varepsilon L$ | əoeds fooy | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Yว！＾g | S\｜eM |  |  | 乙／EL | əoedS fooy | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Hə犬 8 POOM | 6u！！！ə |  |  | L／EL | əoedS fooy | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq \supsetneqכədsu! Oᄀ Ssəวэe ou - poom``` | Bu！̣xq ןəィə｜цচ！！ |  |  | 9／てレ | Kq907 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pu!̣亩 łכədsu! } \\ & \text { oł ssəכวe } \\ & \text { ou - גəłseld } \end{aligned}$ | $\begin{gathered} \text { Cu!xoq } \\ \text { ןəএə MOך } \end{gathered}$ |  |  | G／Zレ | Kqq07 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ | Yı0Məd！d |  |  | ャ／てレ | Kqq07 | V／N |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom | 100｜」 |  |  | \＆／てレ | Кqqo | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yગ！uq 8 dəlseld | $s \\| \mathrm{CM}$ |  |  | て／てレ | Кqqo | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | גəłseld | 6u！！əə |  |  | レ／てレ | Кqqo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | ১əs！！ |  |  | 9／レレ | preoqdno ว！ฝગƏృヨ | $\forall / \mathrm{N}$ |
| әбruew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV |  <br> pəunsərd <br> －spıen6yse｜f <br> solsəqse <br> рәןеәэиоэ <br> u！̣łұuos Kew | леәбцэџ！мм ןอગ！ŋ๖əコヨ | ZOO | V／N | G／レレ | preoqdno <br> ว！џっəコヨ | $\forall / \mathrm{N}$ |
| uO！̣ヤヤ | Kulumad uo！̣כ | ssəวэ૪ | əı0ЈS | ədK」 sOlsəəs $\forall$ | †еә」」 әэセцй | meg | ədK <br> pold | WOn なueno | uo！̣d！ıəsə］ | ұиәиodmoう 6u！p！！ng | Jəy <br> ołOपd | よəy əઇdues | ıəqunn fəy | mooy |  |
| GLOZ／L0／9L：əだ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  би！̣оч！uou бu！̣об－ио sәןеэ！pu！лəqu＊ |  | рәц！̣nbəд s！ uо！̣эе ұецł sәəеэ！ри！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | әдq！ әреш әи！чэеW | uo！̣e｜nsu！¥O7 |  |  | L／ヤレ | $\begin{aligned} & \text { mooy dotow } \\ & \text { H! ר/əoeds } \\ & \text { fooy } \end{aligned}$ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | （Кәу ои）$\ddagger$ əədsu！ 이 SSəつวอ ou－рәуフоך | mood доңои H！아 1000 |  |  | 9／ヤレ | $\begin{aligned} & \text { mooy lotow } \\ & \text { Hา/əoeds } \\ & \text { fooy } \end{aligned}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | meof <br> \＆preoquəlseld | yołey of spoued |  |  | G／カレ | $\begin{aligned} & \text { mooy dotow } \\ & \text { H!ר/əoeds } \\ & \text { fooy } \end{aligned}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ | Yıомəd！d |  |  | ャ／カレ | $\begin{aligned} & \text { mooy aotow } \\ & \text { Hר/əoeds } \\ & \text { fooy } \end{aligned}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ıəısejd 8 poom | 100｜」 |  |  | と／ヤレ | $\begin{aligned} & \text { mooy lotow } \\ & \text { Hา/əoeds } \\ & \text { fooy } \end{aligned}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ıəıseld | $s \\| P M$ |  |  | て／ヤレ | $\begin{aligned} & \text { mooy dolow } \\ & \text { H!/əoseds } \\ & \text { fooy } \end{aligned}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рıеоq łәшшедя 8 みәょ ‘poom | 6u！！！ə |  |  | レ／ヤレ | $\begin{aligned} & \text { mooy aotow } \\ & \text { H!/əoeds } \\ & \text { fooy } \end{aligned}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əıq！y ןeıəu！ әреш әи！чગеш |  |  |  | 8／EL | əoedS fooy | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | IEłəW | 6u！̣oņ |  |  | L／EL | əoeds food | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әıq！ן ןeıəu！̣ әреш әи！ЧગеW | uo！pejnsu！ 707 |  |  | 9／EL | əoedS fooy | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pueoquəiseld |  |  |  | G／EL | əoeds fooy | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pә66eןun <br> 8 pəsodxヨ | YıOMəd！d |  |  | ャ／EL | əoeds fooy | $\forall / \mathrm{N}$ |
| uo！̣ว | Kululud uo！̣ァ | ssəวગヤ | ขı0כS | әdK」 solfsəqs $\forall$ | †еә」」 әэецй | meg | $\partial d K \perp$ <br> pold | WOO дueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ng | fəy 0104d | よəy əઇயues | ıəqunn fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9レ：əృPG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  бu！̣ои！！uou 6u！̣об－uо səןฺэ！pu！」əqu＊ |  | рәц！̣nbәд s！ <br>  |  |  |  |



| ә6．uew | моา | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | HO I | ข！！ |  | дәуseэ | S00 | $\underset{s \forall}{\text { Zع99L/dS }}$ | 6／L1 | ॥әмu！els | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!yeq fo } \\ \text { of sse } \\ \text { ou - } 1 \text { ? } \end{gathered}$ | છəədsu！ әวэе 콰리d | 6upxog |  |  | 8／L1 | IİMuels | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pu!ueq } \\ & \text { of sse } \end{aligned}$ ou - лə | ¡əədsu！ <br> ә๐эе <br> 콰릭 | 6ux̣oq †әлә моา |  |  | L／L1 | IİMulels | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { pu!yeq } 10 \\ \text { of ssəכo } \\ - \text { poom } 8 . \end{array}$ | ¡əədsu！ ove ou 8 дə㐄seld | 6uixoq ｜əлә｜4б！！ |  |  | 9／L1 | ॥әмu！els | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | 1 1ə¢ |  | реәчу｜ing |  |  | G／Ll | IİMu！els | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pə66 } \\ & 8 \text { pəss } \end{aligned}$ | $\begin{aligned} & \text { Sepun } \\ & \text { sodxヨ } \end{aligned}$ | ฯ＞0мәd！d |  |  | t／Ll | IİM！els | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әәөว | uoう | 100｜ |  |  | ع／L1 | HәMulets | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | צगب¢ 8 | 127SEld | s\｜Iem |  |  | ZIL1 | пәмпете | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | 1 dis |  | 6u！！！oว |  |  | 1／LL | IIəmulets | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sイəy ou） －рәуว 아 SSəコ | ！！eле ¡oədsu！ ou 이 1000 | ฯı0мәd！d |  |  | t／91 | ข1이S | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | sイəy ou） Ot SSəO －рəyכо | ！！eле ¡əədsu！ ove ou 이 | 100ㅂ |  |  | ع／91 | 20이 | $\forall / \mathrm{N}$ |
| uo！̣v | Kוu！ud uO！！ | ssəoว | әлООS | $\begin{gathered} \text { əd } \kappa_{\perp} \\ \text { sołseqs } \end{gathered}$ | ¡еә」 әэецй | mea | ${ }^{\text {əd }}{ }^{2} \perp$ pold | $\begin{aligned} & \text { won } \\ & \text { nueno } \end{aligned}$ | uo！！d！ | usəo | łuәuodmoう 6u！p！！ng | $\begin{gathered} \text { ғəy } \\ \text { ołoud } \end{gathered}$ | $\begin{aligned} & \text { əəy } \\ & \text { ədures } \end{aligned}$ | $\begin{aligned} & \text { səquinn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { ON } \\ \text { wooy } \end{gathered}$ |
|  |  | LOZ／L0／9 | $\downarrow$ ：әґе | LSZ | 00／I－$/$／V | ／OON | ：on | みodəy |  |  |  |  |  |  |  |  |
|  | N ‘u | u！ 1 O | Ioy | \％＇$\varepsilon$ ə | วว ґ | $\bigcirc \bigcirc$ | ue | ¢9！ 1 | едиәว |  | s！¡uәшә6еие uou 反uio6－uo ！！pu！」əqu＊ |  | uo！ |  | ！pu！pəy |  |


|  |  |  |  |  |  |  |  |  | pә66eןun 8 pəsodxヨ |  | 6u！！！əつ pəpuədsns ə＾оqe s،rSy |  |  |  | てL／8レ | еәл ұпоуеәдя | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ |  | бu！！！əつ pəpuədsns ə＾оqе yıOMəd！d |  |  |  | レレ／8レ | eə．， ұпоуеәдя | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ |  | бu！！！əつ pəpuədsns əлоqе 6u！ıэnવ |  |  |  | OL／8L | еәл ұпоуеәдя | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | Нə̈ 8 POOM |  | 6u！！！əつ pəpuədsns əлоqе бu！！！əつ |  |  |  | 6／81 | eə．オ ןnoyeәдя | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom |  | $\begin{gathered} \text { ıоор } \\ \text { әлоqе pıеоя } \end{gathered}$ |  |  |  | 8／81 | еコ．ノ ұпоуеәля | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | dəlseld |  | ł！Hos mopu！M |  |  |  | L／81 | eə．V ənoyeәля | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!̣əq łכədsu! } \\ \text { oł ssəכэe } \\ \text { ou - poom } \end{gathered}$ |  | SןIEM of sjəued |  |  |  | 9／81 | eəコV ŋпоуеәдя | V／N |
|  |  |  |  |  |  |  |  |  | pu！чəq łəədsu！ <br> 아 SSəつગe <br> ou－גəlseld |  | Јəs！${ }^{\text {¢ }}$ |  |  |  | G／81 | еә， ұпоуеәдя | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əlqeэ！！dde łoN |  | yıOMəd！d |  |  |  | 七／81 | еコ．ノ ұпоуеәля | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom |  | 100｜」 |  |  |  | ع／81 | eə．，$\forall$ ұпоуеәля | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq \％delseld |  | S\｜PM |  |  |  | Z／81 | еコノV ənоуеәля | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！！əגq！y ן巴əəu！u әреш əu！ЧગеW |  | 6u！！！ə |  |  |  | L／81 | еコノ $\forall$ ұпоуеәля | $\forall / \mathrm{N}$ |
| uo！？习习 | Kuluold uo！̣ァ | ssəวэ૪ | ขıOJS | $\partial d K_{\perp}$ solsəqs $\forall$ | †еә」」 әэセцй | meg | $\partial d K_{\perp}$ <br> pold | WOn дueno | uo！̣d！ıอsə］ |  | ұиәuodmoう 6u！p！！ing |  |  | Ғəप әрdue | $\begin{aligned} & \text { ıəqunN } \\ & \text { Łəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／LO／9L ：əןeQ LGZOO／IJ／VW／OON ：on uodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәц！！nbәд s！ұиәшәбеиеш 6u！̣ои！！uou bu！̣oб－uo səןฺэ！pu！」əqu＊ |  |  |  uо！̣эе ұецł sәŋеэ！ри！рәу |  |  |  |  |


|  |  |  |  |  |  |  |  |  | pә66eןun 8 pəsodxヨ |  | 6u！！！əつ pəpuədsns əлоqе yıомəd！d |  |  | 0l／61 | mooy <br> бu！u！e」＿ | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Hə＞Poom |  | Gu！！！əコ pəpuədsns əлоqе бu！！！əつ |  |  | 6／61 | mooy бu！u！eл＿ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łuəsə <br> sןe！১ə <br> sołsəqs | ord әұе山 se oN | Słपర！｜KYS |  |  | 8／61 | mooy 6u！u！eл」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom |  | sұчБ！｜Куs 아 spoued |  |  | L／6 1 | mooy 6u！̣u！e」＿ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> of SSəつวอ <br>  |  | ıəs！！ |  |  | 9／61 | mooy бu！u！eл＿ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！чəq ఛəədsu！ <br> 이 ssəoวe <br> ou－poom |  | S\｜EM Of sjoued |  |  | G／6I | mooy бu！u！eл」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeग！！dde łoN |  | yıoməd！d |  |  | t／61 | mooy 6u！u！e」＿ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom |  | 100｜」 |  |  | ع／6L | wooy 6u！u！e』」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yગupq＞dəlseld |  | $s \\| \mathrm{P} M$ |  |  | Z／61 | mooy 6u！u！e』」 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | sə｜！əાq！！ןセıəu！u әреш әи！чэеш 8 小əlseld |  | 6u！！！əつ |  |  | L／61 | mooy 6и！u！̣ед | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әдq！！ןeләu！̣ әреш әи！чэеพ |  | bu！！！əコ pəриədsns əлоqе uо！̣еןnsu！ұоך |  |  | عL／8L | еәл ұпоуеәля | $\forall / \mathrm{N}$ |
| uo！̣ว | Kluolud uo！̣ァ | ssəวงヤ | əıOכS | $\begin{gathered} \text { ədK」 } \\ \text { solsəqs } \forall \end{gathered}$ | ¡еә」」 әэセцй | meg | әdK」 pold | WOO ィueno | uo！̣d！̣əsə |  | ұuәuodmoう 6u！p！！ing | fəy oł04d | fəy әдdues | $\begin{aligned} & \text { səquinn } \\ & \text { təy } \end{aligned}$ | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：ə̨eם LGZ00／Iコ／VW／OON ：ON Hodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LON＇mey6u！ |  |  |  |  |  |  |  |  |  | рәı！иbәл s！ұиәшә6еиеш бии̣о！！uou бu！̣о－ио səəฺэ！！pu！」əqū |  |  | рәц！̣nbәл s！ uо！̣эe łецł səəеэ！̣и！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ | s，rSy |  |  | G／乙乙 | mooy」OłOW 7！！ | V／N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | uo！̣民｜nsu！meot цІ！м рәб6еןun 8 pəsodxヨ | Yıомəd！d |  |  | ャ／て乙 | $\begin{gathered} \text { wooy } \\ \text { ıołow } \end{gathered}$ | V／N |
|  |  |  |  |  |  |  |  |  | әృəゝนОつ | 100｜ |  |  | ع／乙乙 | $\begin{gathered} \text { mooy } \\ \text { גOו! } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yว！入ด | $s \\| \mathrm{P} M$ |  |  | 乙／乙乙 | $\begin{gathered} \text { wooy } \\ \text { ıołow } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ӘృəఎコОつ <br>  | 6u！！！əつ |  |  | L／てZ | $\begin{gathered} \text { wooy } \\ \text { ר!! } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxヨ | бu！！！əコ pəpuədsns əィоqе үノOMəd！d |  |  | 8／レて | лор！100 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әдq！ן ןеләu！ әреш әи！чэеW | бu！！！əコ pəpuədsns әлоqе uO！！̣｜nsua |  |  | L／レて | лор！10才 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom 8 dəlseld | 6u！！！əコ pəpuədsns əィоqе రu！！！əつ |  |  | 9／レて | 10р！גоך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom | цว๖ец 6u！！！əэ of spueisd $\cap$ |  |  | G／LZ | лор！גоЭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ | Yıомəd！d |  |  | カノレて | лор！100 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıes 8 əృəృコ૦Ј ‘pooм | 100｜」 |  |  | ع／レて | лор！110つ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Younq \％delseld | S\｜PM |  |  | てIレて | лор！גоך | $\forall / \mathrm{N}$ |
| U0！ヤヤ＊ | Kululud uo！̣ァ | ssəววト | əı03s | әdK」 solsəəqs $\forall$ | јеә」」 әэセцй | meg | $\partial d K_{\perp}$ <br> pold | WOn ィueno |  | ұuәuodmoう 6u！̣p！！ng |  | fəy əઇdues | $\begin{aligned} & \text { ıəqunN } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
|  |  | て／レ0 | ：əן¢ |  | ／I $\ddagger$／$\forall$ | $\bigcirc \bigcirc$ | ：ON | odəy |  |  |  |  |  |  |  |
|  | ON＇u | U！ | MOY | $u \nabla$＇$\varepsilon$ ə | บəつ $\downarrow$ | $10 \bigcirc$ | Ue | 29！ 7 |  | s！łuәшә6eue ！uow 反u！̣o6－uo э！pu！лəqu＊ |  |  | рәц！！nb ј łецł sә | ！pu！pəy |  |


|  |  |  |  |  |  |  |  |  | ıəıseld | 6u！！！əつ pəpuədsns əлоqе ถu！！！əつ |  |  | 6／દ乙 | ЭМ әрешə」 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！̣əq ŋəədsu！ 아 Ssəวગe ou－poom | 6uixoq ןəлə｜૫Б！ H |  |  | 8／દ乙 | ЭМ әрешə」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 SSəつગe <br> ou－poom | buịxoq \％Sıəs！y |  |  | L／と乙 | ЭМ әрешə」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | э！யеләว | suגəŋ！ |  |  | 9／દ乙 | ЭM əןemə」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pu!̣əq loədsu! } \\ & \text { of ssəכэe } \\ & \text { ou - poom } \end{aligned}$ | 6u！xoq ןə＾ə｜MOך |  |  | G／E乙 | ЭM әршə」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ | yıoməd！d |  |  | ャ／દ乙 | ЭM әрещə」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ｜Ku！̣ 8 роом | 100｜」 |  |  | દ／દ乙 | ЭМ әןешə」 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | รə！！Ј！யeגəコ 8 หว！̣q ‘גəાseld | S\｜PM |  |  | 乙／E乙 | ЭМ әрешə」 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | sə！！！əuq！y ןeıəu！u әреш әи！чэеш | 6u！！！əつ |  |  | L／EZ | ЭМ әрешə」 | $\forall / \mathrm{N}$ |
| ә6euew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV | ә！！！op！ooィว рәunsəлd <br> －spıen6yse｜f solseqse рәןеәэиоэ u！̣ełuoo Kew | леәбบગ！！мs ןอગ！ૌЭӘ｜ヨ | ZOO | $\forall / \mathrm{N}$ | L／乙乙 | $\begin{gathered} \text { wooy } \\ \text { ৷ołow } \end{gathered}$ | V／N |
|  |  |  |  |  |  |  |  |  | 孔uәsə』d sןe！ıәңеш solsəqse oN | ı010w |  |  | 9／乙乙 | mooy 10ł0W | $\forall / \mathrm{N}$ |
| uo！̣จ丬 | Kulud uO！כヲ | ssəวગヤ | əı03S | $\partial \mathrm{d} K_{\perp}$ solssəqs $\forall$ | †еә」」 әэецй | mer | $\begin{aligned} & \text { əd } K_{\perp} \\ & \text { poدd } \end{aligned}$ | WOO ィueno | uo！̣d！ussə | łuәuodmoう 6u！p！！ing | fəy ol04d | よəy әोdues | ```_əqunnN fəy``` | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：əjeQ LGZOO／IJ／VW／OON ：on uodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәц！！nbəィ s！ןиәшәбеиеш 6u！̣ои！ииош 6u！̣об－ио səןฺэ！pu！」əqu＊ |  | pəı！̣nbəュ s！ <br>  |  |  |  |


| ə6еuew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | m 0乙 | ә！ | 6uisou ג！els | 900 | 七Z991／dS | 9／G乙 | Kqqo7 $7!17$ ／IIəM！！ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | łכədsu！ <br> Ol SSəつગอ ON | ר－ר！ |  |  | G／G乙 | רו！נ ／IIəM！！ełS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeэ！！dde $\ddagger 0 \mathrm{~N}$ | YıOMəd！d |  |  | ヤ／G乙 | רו！נ ／IIəM！！ełS | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | $z^{\text {m 0 }}$ |  | 1001」 | $\forall / N$ | عZ99l／dS | $\varepsilon / \zeta 乙$ | רו！ <br> ／IIəM！！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Younq＞ג̇ıseld | S\｜EM |  |  | 乙／G乙 |  ／I｜ӘМ山！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  <br> 8 よəlseld | 6u！！！əつ |  |  | L／GZ | רו！נו ראqqo ／IIəMu！$\ddagger$ S | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> 8 pəsodxヨ | yıoməd！d |  |  | 七／ヤ乙 |  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | poom | 100｜」 |  |  | $\varepsilon / \downarrow 乙$ | ıӘS！¢ ӘЈ！＾ıӘS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | yว！ィด | S\｜eM |  |  | 乙／ヵて |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom | 6u！！！əつ |  |  | L／ヤ乙 |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ | 6u！！！əつ pəpuədsns әлоqе уломәd！d |  |  | レレ／とて |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әдq！ן ןеләu！̣ әреш әи！чэеพ | Бu！！！əコ pəpuədsns əлоqе uo！̣e｜nsu｜ |  |  | OL／E乙 | OM өן巴யə」 | $\forall / \mathrm{N}$ |
| uo！̣จ | Kululd uo！̣ว | ssəวગヤ | əı0כS | ədK」 solsəqs $\forall$ | łеә」」 әэセцй | meg | $\partial d K \perp$ <br> pold | WOO fueno | uo！̣d！usə | ұиәuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy әઇdues | $\begin{aligned} & \text { лəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |


management is required


|  |  |  |  |  |  |  |  |  | sə！！ə әq！！ןeıəu！u әреய әи！！эモW | 6u！！！əつ |  |  | L／8Z | əヱนəつ ॥еЭ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әృеIS | luə＾Of spued |  |  | 8／LZ | $\begin{gathered} \text { mooy } \\ \text { ıolow t! } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | uләроW | леәбчэџ！мм ןอכ！ג๖ə｜ヨ |  |  | $L / L Z$ | $\begin{gathered} \text { wooy } \\ \text { ר!נו+ } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | uләроW | 1010W $7+7$ |  |  | 9／L乙 |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxヨ | s،rSy |  |  | G／LZ | $\begin{gathered} \text { wooy } \\ \text { ıołow } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxヨ | yı0Məd！d |  |  | †／LZ | $\begin{gathered} \text { wooy } \\ \text { ıołow } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృəŋน๐つ | 100｜」 |  |  | $\varepsilon / L Z$ |  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | Y习！ג¢ | S\｜PM |  |  | Z／L乙 | $\begin{gathered} \text { mooy } \\ \text { ר! } \end{gathered}$ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әңәл๐иоว <br> 8 Jəlseld | 6u！！！əつ |  |  | L／LZ | $\begin{gathered} \text { mooy } \\ \text { ıolow t! } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | YıOMəd！d |  |  | ャ／9Z | ขıOłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృəృบ๐ว | 100｜」 |  |  | $\varepsilon / 97$ | әıоłS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | Youpq \％delseld | S\｜EM |  |  | 乙／9乙 | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әдәлэиоэ <br> 8 」əlseld | 6u！！！əつ |  |  | L／9Z | ƏృО1S | $\forall / \mathrm{N}$ |
| uo！̣ว | Kluoled uo！！？ | ssəวэ૪ | əృООS | $\begin{gathered} \text { ədKı} \\ \text { solsəqs } \end{gathered}$ | $\begin{aligned} & \text { †еə」』 } \\ & \text { əэeرuns } \end{aligned}$ | meg | $\partial \mathrm{d} K_{\perp}$ <br> pold | WOn aueno | uo！̣d！ıつsə］ | ұuәuodmoう 6u！p！！ng | $\begin{aligned} & \text { Łəy } \\ & \text { ołoपd } \end{aligned}$ | よəy әןdues | $\begin{aligned} & \text { ıəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9レ：əfeด |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  бu！̣о！！uou бu！̣об－ио səןฺэ！pu！」əqu＊ |  | рəц！！nbәл s！ uо！̣эe łецł səəеэ！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | uләроW |  | леәбчэџ！мя ןอо！цэә৷ヨ |  |  | G／乙£ | pıeoqdno ง！ฝフәコヨ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | Yı0мәd！d |  |  | 七／乙® | pıeoqdnう ว！ฝŋəココ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əృəゝ位つ |  | 100｜ |  |  | $\varepsilon / 乙 \varepsilon$ | preoqdno э！ฝŋəəコ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | YO！ıq＞ג̇ıseld |  | S\｜PM |  |  | 乙／乙® | preoqdno ว！ฝŋコココ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əృココニロつ <br>  |  | 6u！！！əつ |  |  | L／て£ | pıeoqdnう ว！ฝગอ⿰丨コ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әıq！！ןeıəu！u әреш әи！чэеш |  | Cu！！！əコ pəpuədsns ə＾oqe uo！！eןnsuן |  |  | L／LE | mooy ธu！ңәәW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxə ‘‘セłəわ |  | бu！！！əつ pəpuədsns əлоqе 6u！！эnด |  |  | 9／レE | mooy бu！ңəәW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  <br>  |  | Би！！！əコ pəpuədsns əлоqе 6u！！！əつ |  |  | G／レE | mooy ธu！ңәәW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  |  | yı0Məd！d |  |  | ャ／レヒ | mooy <br> бu！！əәW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $8$ | deo コロu0う | 100｜ |  |  | E／レE | mooy бu！ңəəW | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | YOִıq 8 | delseld | S\｜eM |  |  | て／レE | mooy <br> бu！əәәW | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | sə！！ə əવ әреш | ！ןeıəu！u əu！บગセW | ธu！！！əつ |  |  | レ／LE | mooy <br> бu！ŋəәw | $\forall / N$ |
| uo！̣จ丬 | Kupuld uо！̣ァV | SSəכว૪ | ƏృООS | $ə d K_{\perp}$ solłsəqs $\forall$ | †еә」」 әэецй | meg | $\partial d K \perp$ <br> pold | WOn дueno | uo！̣d！ıつsə］ |  | ¡uәuodmoう 6u！p！！ng | foy 0104 | よəy әןdues | 」əquinN fəy | mooy |  |
| GL0Z／L0／9レ：シ1Pロ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәц！！nbə» s！јиәшә6еиеш бu！̣ои！！uou bu！̣об－uо səృеэ！pu！」əquv |  |  | pəı！̣nbəд s！ uо！̣эe łецł səəеэ！pu！pəy |  |  |  |



|  |  |  |  |  |  |  |  |  | sə！！əдq！y ןeıəu！u әреш әи！чэеW | 6u！！！əつ |  |  | L／9E | Кqqоך | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ pəpuədsns әлоqе speәч킥 |  |  | レレ／GE |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əコ pəpuədsns əィоqе 反u！！！əつ |  |  | OL／G\＆ | IIOMulełS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 Ssəoวe <br> ou－poom | 6u！̣oq ןəлә цઠ！！ |  |  | 6／GE | IIPMulełS | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | $z^{\mathrm{m}} \downarrow$ | ә！！ファイィчコ－ 6u！̣еоэ рәınұхәł 8 dəlseld | umnoo əseoliets | $\varepsilon 00$ | $\begin{gathered} \text { LZ99l/dS } \\ s \forall \end{gathered}$ | 8／乌ॄ | IIOMulełS | $\forall / N$ |
| pıeoqıəло ィо әґе！nsdeouヨ | un！pəW | $\varepsilon$ | 9 | 乙 | 乙 | 0 | 乙 | $\imath^{\mathrm{m}}$ ع | ә！！๐sイıчつ ə！！！ | Јəs！${ }^{\text {d }}$ | てLO | GZ99l／dS | L／GE | ॥əMLIEIS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | łəədsu！ <br> Ol SSəコગe ON | \％eys |  |  | 9／GE | ｜｜əMıIEIS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom | smopu！̣M ןеuләұи！ моןəq sןəued |  |  | G／GE | ॥əмulełS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> » pəsodxヨ | yıoməd！d |  |  | ャ／G\＆ |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom | 10013 |  |  | $\varepsilon / ¢ \varepsilon$ |  | $\forall / \mathrm{N}$ |
| ә6euew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | z ${ }^{\text {W }} 09$ | ә！џозイメчว <br> －SIIEM 아 <br> 6u！̣еоэ рәınұхәң <br> 8 หว！̣q ‘ıəəseld | S\｜PM | $\varepsilon 00$ | $\begin{gathered} \text { LZ99 } / \text { /dS } \\ \hline \forall \end{gathered}$ | 乙／乌ॄ |  | $\forall / \mathrm{N}$ |
| uo！̣จV | Kו！uoud uо！̣ヲ | ssəวગヤ | əı0ЭS | $ə d K_{\perp}$ solsəqs $\forall$ | †еә」」 әэецй | meg | $\begin{aligned} & \text { əd } K_{\perp} \\ & \text { po,d } \end{aligned}$ | WOn fueno | uo！̣d！ussə | ұиәиodmoう 6u！̣p！！ng | foy ołOपd | foy әઇdues | $\begin{aligned} & \text { ıəqunN } \\ & \text { əəy } \end{aligned}$ | mooy | $\begin{aligned} & \text { ON } \\ & \text { mooy } \end{aligned}$ |
| GLOZ／L0／9レ：əృe马 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！̣nbə» s！ұиәшәбеиеш бu！̣ои！！uou 6u！̣об－uо sәןеэ！pu！ләqu＊ |  | рәı！！nbəл s！ ио！̣эе ұецґ sәəеэ！̣и！рәу |  |  |  |



|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ | yıoməd！d |  |  | 七／8\＆ |  | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әృəゝน๐ว | 1001」 |  |  | $\varepsilon / 8 \varepsilon$ |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | S\｜eM |  |  | 乙／8£ |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәл๐иоэ <br> 8 Jəlseld | Øu！！！əつ |  |  | L／8E | ｜｜əMıİlS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> » pəsodxヨ | 6u！！！əつ pəpuədsns ə＾оqе үјомәd！d |  |  | ZL／LE | ОМ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ pəpuədsns əлоqе бu！！！əว |  |  | レレ／LE | OM | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ן | əd！̣ $\operatorname{\partial ıse}$ M |  |  | OL／LE | OM | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ગ！யелəЭ | u৯əıs！ ןəлә цద！ |  |  | 6／LE | OM | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq \longmapsto\niədsu! O_ SSəכગe ou - \Olfeld``` | Јəs！${ }^{\text {d }}$ |  |  | 8／LE | OM | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq \supsetneqכədsu! of ssəכวe ou - pooM``` | 6u！̣x0g |  |  | L／LE | OM | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\varepsilon$ | † | $\varepsilon$ | 0 | 0 | $\downarrow$ | サO V | ә！！souv ә！！！op！ooィว | uむəృડ！つ | 600 | 8Z99l／dS | 9／LE | OM | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | $z^{\text {W M }}$ G＇0 | рәృวəృృр－uON <br> －ə！！ $100 \mid$ Кəఎ૭ | 100｜」 | $\forall / \mathrm{N}$ | LZ99l／dS | G／LE | OM | $\forall / \mathrm{N}$ |
| uo！̣o | Kluold． uo！̣ว | ssəગગ૪ | əృООS | $ə d K_{\perp}$ solfsəqs $\forall$ | łеә」」 әэецй | meg | $ə \mathrm{~d}<\perp$ pold | WOO ィueno | uo！̣d！̣əsəด | ұuәuodmoう 6u！p！！ng | foy ołOपd | fəy <br>  | ıəqunn fəy | mooy | $\begin{gathered} \text { 'ON } \\ \text { mooy } \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәı！̣nbə» s！łuәшәбеиеш 6u！̣оң！uou 6u！̣о－ио sәןеэ！pu！」əqu＊ |  |  | рəı！̣bəə」 s！ <br>  |  |  |  |


|  |  | † |  | QN | 0 | 0 | $\downarrow$ | $\imath^{\text {m M }}$ ¢ | рәұગəəəр－uoN <br> － бu！̣ео <br> рәınұхәł 8 <br>  | umnoo | $\forall / \mathrm{N}$ | 0ع99l／dS | L／Ot | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | ```pu!पəq łכədsu! O+ SSəつכe Ou - \OlSEld``` | ॥ем uol！t！ued |  |  | 9／0t | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృココニОつ <br>  | sumuloo » speәч키ng |  |  | G／0t | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рәб6еןun <br> 8 pəsodxヨ | YıOMəd！d |  |  | t／0t | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əədıе 8 әృəゝиОว | 1001」 |  |  | $\varepsilon / 0\rangle$ | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youn 8 delseld | S\｜PM |  |  | 乙／0ヵ | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృココニ૦つ <br>  | 6u！！！əつ |  |  | L／Ot | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | реәч年的号 |  |  | $\mathrm{G} / 6 \varepsilon$ | 2107S | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əાqeכ！！dde $\ddagger 0 \mathrm{~N}$ | Yı0Məd！d |  |  | ャ／6£ | 2101S | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | $\imath^{\mathrm{m}}$ ฤ | ә！！๐оイスцว－ ।Ки！ィィ 8 әұәлиоว | 100｜ | OLO | 6Z991／dS | $\varepsilon / 6 \varepsilon$ | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | preoqualsejd －IIEM uol！！ued <br>  | S\｜PM |  |  | Z／6E | ƏıOłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృココニО <br> 8 ฝəlseld | 6u！！！əつ |  |  | L／6E | ƏıOłS | $\forall / \mathrm{N}$ |
| uo！̣ov | Kululad uо！̣ヲ | ssəวэヤ | əı03S | əd $K_{\perp}$ solseqqs $\forall$ | †еә」1 əวセృกns | meg | $\partial \mathrm{d} K_{\perp}$ <br> pold | WOn łueno | uo！̣d！usə | ұuәиodmoう 6u！p！！ng | $\begin{gathered} \text { foy } \\ \text { oloud } \end{gathered}$ | よəy әोdues | $\begin{aligned} & \text { Iəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{aligned} & \text { on } \\ & \text { mooy } \end{aligned}$ |
| GLOZ／L0／9L：əృeZ LGZ00／Iコ／VW／OON ：ON Hodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  Би！̣оң！uou бu！̣об－ио sәןеэ！pu！」əqu＊ |  | рәц！！nbəд s！ uо！̣эе ұецł sәəеэ！ри！рәу |  |  |  |



|  |  |  |  |  |  |  |  |  | 1elsejd <br> －sןem uo！t！ued yO！ıq 8 dəlseld | S\｜EM |  |  | て／てヤ | سooy ગ！ıŋəヨ | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | 6u！ŋəə૫s э！̣seld | 6u！！！จ |  |  | レ／てカ |  | $\forall / N$ |
| əィошәу | MO7 | $\downarrow$ | 6 | 乙 | 乙 | $\varepsilon$ | 乙 | IIV | ә！！！osイıu૭ ə！！souv | 6u！！！əコ pəpuədsns әлоqе umnjoэ Kq s！̣qəด | ELO | $\begin{gathered} \text { SZ99l/dS } \\ \text { S } \forall \end{gathered}$ | 8レ／レヤ | Kıeıq！ 7 | $\forall / N$ |
|  |  | $\downarrow$ |  | QN | 乙 | $\varepsilon$ | 乙 | IIV | рəృગəృəр－иоN | 6u！！！əə pәpuәdsns әлоqe s،rSy of sụqәa | V／N | 99EGI／N8 | くレノカ | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | Бu！！！əコ pəpuədsns ə＾оqe yıомəd！d |  |  | 9レルカ | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun я pəsodxə ‘‘Łłəわ |  |  |  | Gレ／レヤ | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əコ pəpuədsns əィоqе бu！！！əう |  |  | マレ／レ | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！чəq џəədsu！ <br> 아 ssəつวヤ <br> ou－poom | 6u！xog |  |  | とレルヤ | Kıeıq！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！чəq łכədsu！ <br> 아 SSəつวe ou－」əłseld | ॥ем uo！t！ |  |  | てレルカ | Kıeıq！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | smopu！̣ ןеиләұи！ лəpun sןəued |  |  | レレルカ | Kıeıq！ | $\forall / \mathrm{N}$ |
| uo！̣ov | Kululud uo！̣ว | ssəวગト | əı0ЈS | ədK」 sołsəqS $\forall$ | łеә」」 әэеция | meg | ədK」 <br> pold | WOO fueno | uo！̣d！usə | ұиәuodmoう 6u！p！！ng | કəy oloud | fəy әઇdues | $\begin{aligned} & \text { лəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |

GLOZ／LO／9L ：ətea LGZOO／I／VW／OON ：ON Hodəy
рәı！̣nbә» s！
uо！̣эe łецł sәןеэ！pu！pәy

|  | Red indicates that action is required |  |  | Amber indicates on-going monitoring management is required |  |  | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Report No: NCC/MA/FI/00251 |  |  |  |  | Date: 16/01/2015 |  |  |  |
| Room No. | Room | Ref Number | Sample Ref | Photo Ref | Building Component | Description | Quant/ UOM | $\begin{aligned} & \text { Prod } \\ & \text { Type } \end{aligned}$ | Dam | Surface Treat | Asbestos Type | Score | Access | Action Priority | Action |
| N/A | Electric Room | 42/3 | $\begin{gathered} \text { As } \\ \text { SP/16629 } \end{gathered}$ | 010 | Floor | Wood \& vinyl Chrysotile | $1 \mathrm{~m}^{2}$ | 1 | 0 | 0 | 1 | 2 | 3 | Low | Manage |
| N/A | Electric Room | 42/4 |  |  | Pipework | Not applicable |  |  |  |  |  |  |  |  |  |
| N/A | Electric Room | 42/5 | N/A | 002 | Electrical switchgear | May contain concealed asbestos flashguards Presumed Crocidolite | All | 2 | 0 | 1 | 3 | 6 | 1 | Low | Manage |
| N/A | Electric Room | 42/6 |  |  | Low level boxing | $\begin{aligned} & \text { Wood - no } \\ & \text { access to } \\ & \text { inspect behind } \end{aligned}$ |  |  |  |  |  |  |  |  |  |
| N/A | Electric Room | 42/7 |  |  | Ceiling above ceiling | Wood |  |  |  |  |  |  |  |  |  |
| N/A | Store | 43/1 |  |  | Ceiling | Machine made mineral fibre tiles |  |  |  |  |  |  |  |  |  |
| N/A | Store | 43/2 |  |  | Walls | Plaster \& brick Partition walls plaster - no access to inspect behind |  |  |  |  |  |  |  |  |  |
| N/A | Store | 43/3 | $\begin{gathered} \text { As } \\ \text { SP/16629 } \end{gathered}$ | 010 | Floor | Wood \& vinyl Chrysotile | $1 \mathrm{~m}^{2}$ | 1 | 0 | 0 | 1 | 2 | 3 | Low | Manage |
| N/A | Store | 43/4 |  |  | Pipework | Not applicable |  |  |  |  |  |  |  |  |  |
| N/A | Store | 43/5 |  |  | Bulkhead | Concrete/plaster |  |  |  |  |  |  |  |  |  |
| N/A | Store | 43/6 |  |  | Ceiling above suspended ceiling | Plaster |  |  |  |  |  |  |  |  |  |
| eport No. : NCC/MA/FI/00251 urveyor: A. Bennett Date: $16 / 01 / 2015$ |  |  |  |  |  |  |  |  |  |  |  |  |  | Page |  |


|  |  |  |  |  |  |  |  |  | əృəృ位つ | 100｜」1 |  |  | ع／9t | ॥әмı！els | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | YO！ıq 8 delseld | $s \\| \mathrm{L} M$ |  |  | 乙／9ヵ | ｜｜әMılelS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәฎ๐иоэ 8 」əlseld | 6u！！！ə |  |  | L／9t | ॥əMı！els | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld |  |  |  | 9／St | Kqqo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ¡əədsu！ <br> ol Ssəつગe ON | Heys |  |  | S／St | Kqq07 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeэ！！dde 10 N | Yı0Məd！d |  |  | カ／Gカ | Кqq\％ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | 10013 |  |  | ع／S† |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq \％ıəıseld | S\｜eM |  |  | Z／St |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！əдq！！ןеләu！u әреш əu！чэеW | ธu！！əつ |  |  | L／St | Кqqu | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əдq！y ןeлəu！̣ әреш әи！！эеш Ч！！м рәб6еןun 8 pəsodxヨ | YıOMəd！d |  |  | カ／カヤ | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əədıes 8 poom | 10013 |  |  | ع／ə૪ | 2ı0łS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | YOupq 8 delseld | S\｜eM |  |  | て／カヤ | 21OlS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ӘృコゝいОつ <br> 8 ฝəlseld | ธu！！əつ |  |  | レ／ヤヤ | ƏıOłS | $\forall / \mathrm{N}$ |
| uo！̣ヤV | Kluolld uO！！ヤナ | ssəว৩ヤ | əı00s | $\begin{gathered} \partial \mathrm{d}_{\perp} \\ \text { solsəqs } \forall \end{gathered}$ | ¡セә」1 әэセนก́s | mer | әdK」 pold | WOn ィueno | uo！̣d！ıอsə］ | ұuәuodmoう 6u！p！！ng | 冴 OłOUd | よəy әઇdues | $\begin{aligned} & \text { səqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{aligned} & \text { on } \\ & \text { mooy } \end{aligned}$ |
| GL0Z／L0／9レ：əృȩ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LON＇meybu！ |  |  |  |  |  |  |  |  |  би！̣оч！uou бu！̣о6－ио səןฺэ！pu！」əqu＊ |  |  | рәц！！nbəд s！ uо！̣эе ұецł sәəеэ！！pu！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | dəlseld | 6u！！！əつ pəpuədsns əлоqе бu！！！əう |  |  | $6 / L\rangle$ | Sə＾！Чフォ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | poom | smopu！̣ ןеuләұи！ моןəq sןəued |  |  | 8／Lt | Sə＾！บフォ＊ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ 아 Ssəวગe ou－poom | Jəs！！ |  |  | $L / L\rangle$ | Sə＾！Чフォ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 SSəつวอ <br> ou－poom | 6u！xoq ןəлә Моך |  |  | 9／L | Sə＾！บフォ＊ | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\downarrow$ | † | $\downarrow$ | $\downarrow$ | 0 | 乙 | IIV | ә！！оsイıчว pəunsəad －słəyse6 pue sədoય solsəqse рәןеәэиоэ u！̣ełuos Kew | sıəıеәН | レレO | $\forall / \mathrm{N}$ | G／L† | Sə＾！บフォ＊ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | yı0Məd！d |  |  | カ／$\llcorner$ ¢ | Sə＾！บフォ＊ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıeэ 8 әృəวиОว | 100｜ |  |  | $\varepsilon / L\rangle$ | Sə＾！บフォヲ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  －sाem uo！！！ued yO！ıq 8 dəlseld | S\｜PM |  |  | Z／Lヤ | Sə＾！บフォ＊ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  әреш әи！чэеw | 6u！！əつ |  |  | L／Lt | Sə＾！บフォヲ | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | サ | ə！！0sイıบว | 1әyse〇 | 900 | 乙\＆99l／dS | S／9t |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pә66eןun <br> 8 pəsodxヨ | YıOMəd！d |  |  | 七／9t | ॥əMu！etS | $\forall / \mathrm{N}$ |
| uo！̣ヤ＊ | Kululud uo！̣ァ | ssəวગヤ | ขı0כS | әdK」 solfsəqs $\forall$ | †еә」」 әэецй | mer | $\partial d K \perp$ <br> pold | WOO дueno | uo！̣d！usə | ұuәuodmoう 6u！̣p！！ng | $\begin{gathered} \text { fəy } \\ \text { ołoud } \end{gathered}$ | fəy әઇ保 | $\begin{aligned} & \text { Iəqunn } \\ & \text { əəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9レ：əヤe］ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәц！！nbəィ s！ןиәшәбеиеш бu！̣ои！！uou 6u！̣об－uо səןฺэ！pu！」əqu＊ |  |  | рәı！̣иbәл s！ <br>  |  |  |  |


|  |  |  |  |  |  |  |  |  | Youpq 8 delseld | S\｜eM |  |  | Z／6† | еәл Kpnls $^{\text {S }}$ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | sə！！ə әq！！ן әреш әи！чэеш | ธu！！！əつ |  |  | L／67 |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ | бu！！！əつ pəpuədsns ə＾оqе үјомәd！d |  |  | L／8t | อృоłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxə ‘¡セłəW | бu！！！əo pəpuədsns əлоqе бu！！ |  |  | 9／8t | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ıəıseld | 6u！！！əコ pəpuədsns əлоqе 6u！！！əつ |  |  | G／8t | อıOłS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> 8 pesodxヨ | yıOMəd！d |  |  | －／8t | อıOłS | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | ${ }_{\text {z }}{ }^{\text {m }}$ | ә！！озイıчつ <br> －ןКи！ィ $\varnothing$ роом | 100｜ | OLO | $\begin{gathered} 6 \mathrm{Z99} / \mathrm{dS} \\ \mathrm{~s} \forall \end{gathered}$ | ع／8t | อృоłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | preoquə⿰扌丸灬｜d <br> －suem uompued หગ！ıq 8 дəəseld | S\｜PM |  |  | 乙／8t | อృОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әлоqе ұəәdsu！ <br> 아 SSəつગe <br>  | 6u！！！əつ |  |  | L／8ヤ | อృОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ | 6u！！！əつ pəpuədsns әлоqе уломәd！d |  |  | レレ／Lヤ | sə＾！૫Ј入 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxə ‘•ŁəəN | 6u！！！əつ pəpuədsns əлоqе 6u！̣эnด |  |  | OL／L | sə＾！บЈ入 | $\forall / N$ |
| uo！̣วト | Kluoud uo！̣จ | ssəวэ૪ | əı0כS | әdK $\perp_{\perp}$ <br> solsəəs $\forall$ | łеә」」 әэセцй | meg | $\partial d K_{\perp}$ <br> pold | WOn fueno | uo！ıd！．． | ұиәuodmoう 6u！p！！ing | fəy oł04d | よəบ әोdues | •əqunN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9レ：əヤȩ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meybu！ |  |  |  |  |  |  |  |  |  |  Би！̣оң！uou бu！̣об－ио sәןеэ！pu！」əqu＊ |  | рәц！̣nbәд s！ <br>  |  |  |  |



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|  |  |  |  |  |  |  |  |  | əા¢כ！｜d | Yıомəd！d |  |  | ャ／®G | ıор！גоך | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { fəd } \\ 8 \text { ələر } \end{array}$ | 100｜ |  |  | દ／EG | 10p！100 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | Yכִıq 8 | S\｜EM |  |  | 乙／®G | ıор！גоך | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | sə！！Əıq！ әреш | 6u！！！əう |  |  | L／EG | 10p！10才 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pə6た } \\ & \text {; pəs } \end{aligned}$ | YıOMəd！d |  |  | t／ZG | ১əS！પ ӘЈ！＾＾əS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | poo | 100｜」 |  |  | ع／ZG |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yગ！ | S\｜eM |  |  | 乙／ZG |  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | poo | 6u！！！ə |  |  | L／ZG |  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  | 6u！！！əコ pəpuədsns әлоqе реәцหוng |  |  | عL／LG | OM əృ巴யə」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pə66 } \\ & 8 \text { pəs } \end{aligned}$ | Øи！！！əつ pəpuədsns әлоqе yломәd！d |  |  | てレ／LG |  | V／N |
|  |  |  |  |  |  |  |  |  |  | 6u！！！əつ pəpuədsns əлоqе бu！！！əつ |  |  | レレ／LS |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！पəq <br> 아 SS <br> OU－ | 6u！̣xoq ｜ə＾ə｜МОך |  |  | OL／LG | ЭМ શાewəృ | $\forall / \mathrm{N}$ |
| u๐！ฺヤ＊ | Kluoud uo！̣ว | ssəวગヤ | ə103S | ədK」 sOlsə | ¡еә」 әэeృuns | meg | $\begin{aligned} & \partial \mathrm{d}_{\perp} \\ & \text { pold } \end{aligned}$ | WOn aueno | uo！td！ | ұuәuodmoう 6u！p！！ng | fəy ołOUd | fəy әןdues | 」əquinN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9レ：əıP马 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meybu！ |  |  |  |  |  |  |  |  |  |  <br>  sәןеэ！pu！ләqu＊ |  | рәı！̣nbəд s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |




|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ |  | yıoməd！d |  |  | t／LG |  | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  | 1001 ل1 |  |  | E／LG | UӘપગ૫！પ્ર サセłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Sə！！ग ગ！யeлəว <br>  |  | $s \\| E M$ |  |  | Z／LG |  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | sə！！！əાq！！ןセıəu！u әреш əu！！כеW |  | 6u！！！əつ |  |  | L／LS |  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | poom |  | 6u！！！əつ pəpuədsns әлоqе 6u！！！ə๐ pəpuәdsns of spuełsdn |  |  | LI／9G | mooy flets | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pә66ejun <br> 8 pəsodxヨ |  | 6u！！！əコ pəpuədsns әлоqе yıомәd！d |  |  | 0l／9S | mooy fels | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun я pəsodxə ‘‘ŁəəW |  | 6u！！！əコ pəpuədsns әлоqе 6u！̣эnด |  |  | 6／99 | moor flets | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәృ๐иоэ <br> 8 よəlseld |  | 6и！！！ə๐ pəpuədsns әлоqе реәчห｜ng |  |  | 8／99 | mooy flets | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәృ๐иоэ 8 ปəlseld |  | 6u！！！əว pəpuədsns əィоqе 反u！！！əつ |  |  | L／9G | mooy fels | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృココロー૭ <br> 8 小əlseld |  | sumnjoう |  |  | 9／99 | mooy flis | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld |  | S！！Hos mopu！M |  |  | G／9G | mooy fels | $\forall / N$ |
| uo！̣จ丬 | Kuluold uo！̣७ | ssəวง૪ | əı0ЈS | $\begin{gathered} \text { ədK } \perp \\ \text { sołs } \end{gathered}$ | ¡еә」 әэецй | mer | ədK」 <br> pold | WOn łueno | uo！̣d！ıつsə］ |  | ¡uәuodmoう 6u！p！！ng | fəy ol04d | fəy әोdues | ıəqunn fəy | mooy | －ON moor |
| GLOZ／L0／9レ：əృeด |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәц！！nbəぇ s！ұиәшәбеиеш Би！̣оң！uou бu！̣об－ио səןеэ！pu！」əqu＊ |  |  | рәı！！nbəд s！ uо！̣эe ұецł səృеэ！̣и！рәу |  |  |  |



| əбеuew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | m OZ | ə！！0sイıuว | 6uisou ג！els | 900 | †Z99l/dS S $\forall$ | 9／6G | Kqqoㄱำ ／IIəM！！elS | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | loədsu！ 아 ssəээe on | \％eys |  |  | G／6G | Кqqoㄱำ <br> ／IIӘМЦ！еłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeग！！dde $\ddagger 0 \mathrm{~N}$ | YıOMəd！d |  |  | 7／6G |  <br> ／IIӘМЦ！е† | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | $z^{\text {m }} 0$ O |  | 100｜」 | V／N | EZ99／／dS | $\varepsilon / 6 G$ | רו！ ／IIəM！！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq \％ıəıseld | $s \\| \mathrm{P} M$ |  |  | Z／6G | Kqqo7 ／IIəM！！ełS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әңәл๐иоว <br> 8 dəlseld | ธu！！！əつ |  |  | l／6S | Кqqoㄱㄱ ／IIəм।！еłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ | 6u！！！əコ pəpuәdsns әлоqе уломәd！d |  |  | 01／89 | әЈ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！！əયq！y ןeıəu！u әреш әи！чэеW | бu！！！əつ pəpuədsns ol spuełsdn |  |  | 6／89 | әэ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәл๐иоэ <br>  | 6u！！！əつ pəpuədsns әлоqе speәч킥 |  |  | 8／89 | әэ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әдәлэиоэ <br> 8 」əlseld | 6u！！！əコ pəpuədsns əィоqе 反u！！！əつ |  |  | L／8G | әЈ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ӘృコゝиОつ <br> 8 dolseld | sumnioう |  |  | 9／8G | әэ！サО | $\forall / \mathrm{N}$ |
| uo！̣ヤV | Kiluald u‼ヲヲ | ssəวэヤ | əı0̇S | ədKı solsəqs $\forall$ | ¡еә」 әэセцй | meg | ədK」 pold | won ィueno | uo！̣d！usə | ұuəuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { otoud } \end{aligned}$ | fəy әोdues | $\begin{aligned} & \text { ıəqunN } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：ə尸eQ LGZOO／IJ／VW／OON ：on Hodə |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәц！̣bəд s！ұuәшәб́ueu бu！̣оң！uou бu！̣об－ио səృеэ！pu！ләqu＊ |  |  | pəı！̣nbәд s！ uо！̣эe łецł səəеэ！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | pu！чəq <br> Of SSə <br> －рə！！ | 6uixog |  |  | 9／L9 | uollets sıəuеəノ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！чəq Oㄱ S OU－ | u！xoq＞ıəs！ |  |  | G／L9 | uollets sıəuеəノ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | uо！！̣｜n <br> Ч！！М <br> 8 рә | Yı0Məd！d |  |  | ャ／レ9 | uollets sıəuеəノ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ｜Ku！̣ | 100｜」 |  |  | ع／レ9 | uoliels sıəuеəઇ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  | S\｜EM |  |  | Z／L9 | UO！！els sıəuеə｜つ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！əఎq әреш | 6u！！！əつ |  |  | レ／L9 | uolitels sıəuеəノ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { (əઇવE } \\ \text { sKəy ou } \\ \text { oł ss } \\ \text { ou }-p \end{array}$ | yıoməd！d |  |  | 七／09 | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { (ə1qE } \\ \text { sКəy ou } \\ \text { ot ss } \\ \text { ou }-p \end{array}$ | 100｜」10 |  |  | ع／09 | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | S\｜PM |  |  | Z／09 | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { (əlq } \\ \text { sイəy ou } \\ \text { Of } s \\ \text { ou - } \end{array}$ | 6u！！！əつ |  |  | L／09 | ƏıОłS | $\forall / \mathrm{N}$ |
| uO！̣ว | Kluoud uo！̣ァ | ssəวэ૪ | əı0эS |  | ¡еә」」 әэセцй | meg | әdK」 <br> pold | WOO fueno | uo！t | ұuәuodmoう 6u！p！！ing | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy әןdues | $\begin{aligned} & \text { Iəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！！nbәд s！јиәшәбеиеш Би！̣оң！uou бu！̣об－ио səןеэ！pu！」əqu＊ |  | рəı！̣иbəュ s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |







|  |  |  |  |  |  |  |  |  | әұәл๐иоэ <br> 8 Jəlseld | 6u！！！əつ |  |  | L／69 | ｜｜əMLIEIS | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 SSəつગe <br> ou－dəlseld | 6u！！！əコ pəpuədsns əлоqе реәчห｜ng |  |  | レレ／89 | Kq907 7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | dəlseld | 6u！！！əつ pəpuədsns əィоqе бu！！！əつ |  |  | 01／89 | Kqq07 7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 SSəつગe <br> ou－」əłseld | ॥ем uo！！！ped |  |  | 6／89 | Kqq07 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ 아 SSəつગe ou－poom | 6u！xog |  |  | 8／89 | Kqq07 7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əəədsu！ <br> Oł SSəכગe ON | syeys |  |  | L／89 | Кqq07 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！чəq ŋəədsu！ <br> 아 SSəつગอ <br> ou－poom | ১əS！$\$ Kıด & & & 9／89 & Kqq07 & $\forall / \mathrm{N}$ |  |  |  |  |  |
| рıеоq」əィо ло әґеןnsdeэuヨ | un！pəW | $\varepsilon$ | 9 | 乙 | 乙 | 0 | 乙 | $\imath^{\text {W }} \downarrow$ | ә！！оsイıчว ә！！souv | Јəs！${ }^{\text {d }}$ | てLO | $\begin{gathered} \text { GZ99l/dS } \\ \mathrm{S} \forall \end{gathered}$ | 9／89 | KqqO7 7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | рә66eןun 8 pəsodxヨ | yıOMəd！d |  |  | 七／89 | Кqqo7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ıKu！＾ 8 роом | 100｜」 |  |  | ع／89 | Kqq07 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | YO！ıq 8 delseld | S\｜PM |  |  | 乙／89 | Кqq07 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！ə әq！！ן ןедәu！u әреш әи！чэеW | ธu！！！əつ |  |  | L／89 | KqqO7 | $\forall / N$ |
| uo！̣จ | Kו！uoud uо！̣ヲ | ssəวગ૪ | əృ૦ЭS | $\partial d K_{\perp}$ solssəqs $\forall$ | ¡еә」 әэецй | meg | әdK」 pold | WOn дueno | uo！̣d！ıəsə］ | ұuәиodmoう 6u！p！！ng | fəy ołOUd | foy әोdues | 」əquinN fəy | mooy | $\begin{aligned} & \text { ON } \\ & \text { mooy } \end{aligned}$ |
| GLOZ／L0／9レ：əృe马 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәц！！nbәд s！ұиәшәбеиеш 6u！̣ои！！uou bu！̣oб－uo səןеэ！pu！」əqu＊ |  |  | рәı！̣nbәд s！ <br>  |  |  |  |



|  |  |  |  |  |  |  |  |  |  | S\｜eM |  |  | て／ZL | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | sə！！pəpuədsns әдq！ן ןедәu！u әреш әи！чэеw | 6u！！！ə |  |  | L／ZL | Kıeıq！ 7 | $\forall / \mathrm{N}$ |
| pıeoqıəィо」о әృеןnsdeэuヨ | un！pəW | $\varepsilon$ | 9 | 乙 | 乙 | 0 | 乙 | $z^{\mathrm{m}}$ ع | ә！！๐sイıчว ə！！souv | 6u！！！əコ pəpuədsns ol spuełsd $\cap$ | てLO | $\begin{gathered} \text { GZ99l/dS } \\ \text { S } \forall \end{gathered}$ | OL／LL | әэ！サО | V／N |
|  |  |  |  |  |  |  |  |  | ıəıseld | 6u！！！əつ pəpuədsns әлоqе бu！！！əつ |  |  | 6／LL | әЈ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 Ssəoวe <br> ou－poom | ১əs！${ }^{\text {d }}$ |  |  | 8／レL | әЈ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | мори！м |  |  | L／LL | әэ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！чəq ŋəədsu！ 아 ssəวગอ ou－poom | 6uịxoq ןə＾ə МОך |  |  | 9／レL | әЈ！サО | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\downarrow$ | † | $\downarrow$ | $\downarrow$ | 0 | 乙 | HO L | ә！！๐sイıчつ paunsəad －słəyse6 <br> 8 ədoı solsəqse рәןеәэиоэ u！̣еұиo Kew | ләеән | レレO | $\forall / N$ | G／LL | әэ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ | yıoməd！d |  |  | カ／レL | әЈ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | fədıeэ 8 poom | 101 ل100 |  |  | ع／レL | әэ！みО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | paeoq refsejd －sा｜em uo！！！ued <br>  | S\｜EM |  |  | て／レL | әэ！サО | $\forall / \mathrm{N}$ |
| uo！̣ov | Kluoldd uо！̣จ | ssəวงヤ | əıOכS | ${ }^{2 d} K_{\perp}$ solseqs $\forall$ | †еә」」 әэセนй | meg | ədK」 <br> pold | WOO fueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy әןdues | ıəqunN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |

GLOZ／LO／9L ：ətea LGZ00／IG／VW／OON ：ON Hodəy
рәцınbəə s！
uo！̣эe łечł səłeэ！pu！pəy

|  | Red indicates that action is required |  |  | Amber indicates on-going monitoring management is required |  |  | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Report No: NCC/MA/FI/00251 |  |  |  |  | Date: 16/01/2015 |  |  |  |
| Room No. | Room | Ref Number | Sample Ref | Photo Ref | Building Component | Description | Quant/ UOM | Prod Type | Dam | Surface Treat | Asbestos Type | Score | Access | Action Priority | Action |
| N/A | Library | 72/3 |  |  | Floor | Wood \& carpet |  |  |  |  |  |  |  |  |  |
| N/A | Library | 72/4 |  |  | Pipework | Exposed \& unlagged |  |  |  |  |  |  |  |  |  |
| N/A | Library | 72/5 |  |  | Low level boxing \& riser | Wood - no access to inspect behind |  |  |  |  |  |  |  |  |  |
| N/A | Library | 72/6 | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | 012 | Columns | Amosite Chrysotile | $16 \mathrm{~m}^{2}$ | 2 | 0 | 2 | 2 | 6 | 3 | Medium | Encapsulate or overboard |
| N/A | Library | 72/7 | As SP/634 | N/A | Low level overboarding to column | Non-detected | $1 \mathrm{~m}^{2}$ | 2 | 0 | 1 | ND |  | 3 |  |  |
| N/A | Library | 72/8 | N/A | 011 | Heaters | May contain concealed asbestos rope \& gaskets Presumed Chrysotile | 6 off | 2 | 0 | 1 | 1 | 4 | 1 | Low | Manage |
| N/A | Library | 72/9 |  |  | Window soffits | Plaster |  |  |  |  |  |  |  |  |  |
| N/A | Library | 72/10 |  |  | Ceiling above suspended ceiling | Plaster |  |  |  |  |  |  |  |  |  |
| N/A | Library | 72/11 | $\begin{gathered} \text { As } \\ \text { SP/16625 } \end{gathered}$ | 012 | Upstands to suspended ceiling | Amosite Chrysotile | $7 \mathrm{~m}^{2}$ | 2 | 0 | 2 | 2 | 6 | 3 | Medium | Encapsulate or overboard |
| N/A | Library | 72/12 |  |  | Bulkhead above suspended ceiling | Plaster - no access to inspect behind |  |  |  |  |  |  |  |  |  |



|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { MOIəq f } \\ \text { of SSe } \\ \text { ou }-\lambda ə \end{gathered}$ | sןem uo！t！ued |  |  | G／9L | 10p！100 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әqеэ！｜d | YıOMəd！d |  |  | ャ／92 | 10p！100 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { 尚d } \\ 8 \text { əرٍ } \end{array}$ | 100｜」 |  |  | $\varepsilon / 92$ | 10p！ı0つ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yว！ 198 | $s \\| e M$ |  |  | 乙／9L | ıор！גоך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə｜！Əıq！ əреш ə | 6u！！！əつ |  |  | L／9L | 10p！100 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əдq！$\dagger$ әреш әu | 6u！！！əつ pəpuədsns әлоqе уломәd！d |  |  | ヤV／GL | OM ə®®W | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  | 6u！！！əコ pəpuədsns әлоqе реәчя계 |  |  | EL／GL | OM ə®®W | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { ıoop } \\ \text { әлоqе pıeog } \end{gathered}$ |  |  | ZL／GL | ОМ әృеW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { әlə } \\ & 8 \mathrm{~d} \boldsymbol{\prime} \end{aligned}$ | 6u！！！əつ pəpuədsns əлоqе 6u！！！əう |  |  | レレ／GL | OM ə®®W | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!yəq } \\ \text { ot ss } \\ \text { ou - pə! } \end{gathered}$ | Jəs！${ }^{\text {d }}$ |  |  | OL／GL | ОМ әృеW | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ə＾Oqе $\downarrow$ <br> Ot SS <br> ou－ | $\begin{gathered} \text { бu!!!əo } \\ \text { ןə^ə\| моך } \end{gathered}$ |  |  | 6／GL | ОМ әృеW | $\forall / \mathrm{N}$ |
| uo！ヤว＊ | Kulud uо！̣ヲ | ssəวગヤ | əı03S | $\begin{gathered} \text { ədK」 } \\ \text { solsəqs } \forall \end{gathered}$ | ¡еә」 әэセرй | meg | $\begin{aligned} & \partial \mathrm{d}_{\perp} \\ & \text { pold } \end{aligned}$ | WOO fueno | uo！td！ | ұиәиodmoう 6u！̣p！！ng | foy OłOUd | fəy <br>  | $\begin{aligned} & \text { ıəqunN } \\ & \text { əəy } \end{aligned}$ | mooy | $\begin{aligned} & \text { ON } \\ & \text { mooy } \end{aligned}$ |
| GLOZ／L0／9レ：əヤȩ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！̣nbə» s！ұиәшәбеиеш бu！̣ои！！uou bu！̣об－uо səןฺэ！pu！」əqu＊ |  | pəı！̣nbəュ s！ <br>  |  |  |  |


|  |  |  |  |  |  |  |  |  | әృә๗๐ио <br>  |  | sumnjoう |  |  | 8／LL | mooy ょəュndmoう | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | delseld |  | ıoop әлоqе pıeog |  |  | L／LL | mooy лəュndmoう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | sə！！！әдq！y ןeıəu！u әреш әи！чэеш |  | бu！！！əつ pəpuədsns ol spuełsd $\cap$ |  |  | 9／LL | mooy ıəұndmoう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld |  | S！！IJOS MOPu！M |  |  | G／LL | wooy ょəュnduoう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ |  | yıoməd！d |  |  | t／LL | سooy ıəュnduoう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əədıэっ ४ әృココиоう |  | 100｜」 |  |  | E／LL | mooy <br>  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | YO！uq 8 delseld |  | S\｜EM |  |  | ZILL | mooy ょəュnduoう | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！ə əq！！ןeıəu！̣u әреш әи！чэеw |  | 6u！！！əつ |  |  | L／LL | mooy ıəュndmoう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  <br> 8 Jəlseld |  | 6u！！！əo pəpuədsns ə＾Oqе реәчу｜ng |  |  | 8／9L | лор！גоכ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ |  | 6u！！！əつ pəpuədsns ə＾оqе yломәd！d |  |  | L／9L | 10p！10才 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  <br> 8 Jətseld |  | 6u！！！əつ pəpuədsns əлоqе 6u！！！əつ |  |  | 9／9L | лор！גоЭ | $\forall / N$ |
| uo！̣จV | Kululd uo！̣ァV | ssəวગ૪ | əృООS | $\begin{aligned} & \text { ədK」 } \\ & \text { solssəqs } \forall \end{aligned}$ | †еә」」 әэセృй | mę | $\partial d K_{\perp}$ pold | WOO дueno | uo！̣d！̣əsə］ |  | ¡uәuodmoう 6u！p！！ing | fəy <br> OłOUd | fəy ə⿰丨丨⿱一𫝀口儿es | $\begin{aligned} & \text { IəqunN } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9レ：O1PG |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәд！！nbәл s！ұиәшәбеиеш Би！̣оң！uou бu！̣об－ио səןеэ！pu！」əqu＊ |  |  | рәц！̣nbəд s！ uо！̣эе ұецł sәəеэ！ри！рәу |  |  |  |



|  |  |  |  |  |  |  |  |  | әృә๐иоэ <br>  | 6u！！əつ |  |  | L／Z8 | ॥РМЦІІІS | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | əıq！！ןEлəu！ әреш әи！чэеш ＇pə66ејun » pəsodxヨ | 6u！！！əつ pəpuədsns əィоqе үјOMəd！d |  |  | OL／レ8 | mooy 6и！uлеәา | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom | бu！！！əつ pəpuədsns ol spuełsdn |  |  | 6／18 | mooy 6и！uлеәา | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әృәлОиоつ <br> 8 ıə⿰丬sild | 6u！！！əつ pəpuədsns ə＾оqе speәцหing |  |  | 8／18 | mooy 6и！̣иеәา | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | dəıseld | 反u！！！əコ pəpuədsns әлоqе 6u！！！əう |  |  | L／L8 | mooy 6и！uлеәา | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | てX sumnı0う |  |  | 9／レ8 | mooy 6u！uлеә7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पәq \supsetneqכәdsu! ol ssəээe ou - poom``` | 6u！̣xoq ןəлә МОך |  |  | G／L8 | mooy 6и！uлеәา | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә6Беןun <br> 8 pəsodxヨ | yıOMəd！d |  |  | ャ／レ8 | mooy Би！̣иеәา | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əədıе <br>  | 100｜」 |  |  | ع／レ8 | سoOy 6u！uлеә7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yગụq＞dəlseld | S\｜eM |  |  | Z／レ8 | wooy 6u！uגeә7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！ әıq！！eıəu！ әреш әи！บગеW | 6u！！！əつ |  |  | L／L8 | mooy 6и！uмеәา | $\forall / \mathrm{N}$ |
| uo！̣จV | Kululd uo！⿰丬 | ssəวэ૪ | ə10つS | $\partial d K_{\perp}$ sołsəqs $\forall$ | łеə」」 әэセцй | meg | $\partial d K \perp$ <br> pold | WOO fueno | uo！̣d！usə | ұиәиodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy әןdues | əəqunN fəy | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |

SLOZ／LO／91：：๖ea LGZOO／IG／甘W／OON ：ON मodəy




|  |  |  |  |  |  |  |  |  | Sə｜！ગ ગ！யеృəコ 8 Yગ！̣q ‘ıəəાseld | $s \\| P M$ |  |  | 乙／88 | ОМ słuə૭ | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әұәл๐иоэ <br> 8 Jətseld | 6u！！！əつ |  |  | L／88 | ОМ słuəつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әұәฎ๐иоэ <br> 8 дəłfeld | бu！！！əつ pəpuədsns ə＾оqе реәчห｜ng |  |  | 6／L8 | mooy мə！＾๗əృu｜ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | poom | бu！！！əつ pəpuәdsns 아 puełsdn |  |  | 8／L8 | mooy мə！＾ıəృu｜ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | no！̣e！nsu！meod | 6u！！！əつ pəpuədsns ə＾Oqе yıомəd！d |  |  | L／L8 | mooy <br> мə！＾ıəృu｜ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | dəlseld | 6u！！！əつ pəpuәdsns əлоqе 反u！！！əつ |  |  | 9／L8 | mooy <br> мə！＾ฝəృu｜ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ 아 ssəoวe ou－poom | 乙x 6uixog |  |  | G／L8 | mooy мə！＾ฝəృu｜ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | рәб6еןun <br> 8 pəsodxヨ | yıoməd！d |  |  | 7／L8 | mooy <br> мə！＾ぇəృu｜ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əədıе 8 әృəっиоว | 1001」 |  |  | ع／L8 | mooy Mə！ィ＾əəృu｜ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pıeoq derseld $^{\text {d }}$ －s॥em uo！！！ued <br>  | S\｜eM |  |  | Z／L8 | mooy <br> мə！＾ฝəృu｜ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！pəpuədsns әıq！！ןeıəu！ әреш әи！чэеw | ธu！！！əつ |  |  | L／L8 | mooy <br> мə！＾ฝəృu｜ | $\forall / \mathrm{N}$ |
| UO！！习习 | Kluoud uo！̣ァ | ssəวગヤ | əı03S |  | ¡еә」」 әэセцй | meg | ədK」 <br> pold | WOO aueno | uo！̣d！ussə | ұuәuodmoう 6u！p！！ng | કəy ołOपd | fəy əાdues | əəqunN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |

[^1]|  |  |  |  |  |  |  |  |  | sə｜！$\ddagger$ əq！！ әреш ә | 6u！！！ə৩ |  |  | L／06 | mooy <br> sนəqoy ！！əəว | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | $\begin{aligned} & \text { pə66 } \\ & 8 \text { pəs } \end{aligned}$ | yı0Məd！d |  |  | †／68 | ॥əMu！ets | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | 100｜」 |  |  | ع／68 | IIəMuple | V／N |
|  |  |  |  |  |  |  |  |  | צフִıq 8 | s\｜em |  |  | Z／68 |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | 6u！！！ə〕 |  |  | L／68 | IIəMulets | V／N |
|  |  |  |  |  |  |  |  |  | pu！ ou－ | （yụs pu！̣əq）6u！xog |  |  | 01／88 | ОM słuə๑ | V／N |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { pu!yəq } 7 \\ \text { of ssəo } \\ - \text { poom } 8 \end{array}$ | ১əs！¢ |  |  | 6／88 | OM słuə૭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | O！！ | uəฺธ！つ |  |  | 8／88 | OM słuə๑ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ग！யe | uıəıs！ |  |  | L／88 | ОM słuə๑ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | o！̣se｜d－ poo | 6u！xog |  |  | 9／88 | ОM słuə૭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq ou－ |  |  |  | ¢／88 | ОМ şuə૭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{array}{r} \text { pəద6 } \\ \text { ₹ pəs } \end{array}$ | yı0Məd！d |  |  | t／88 | ОM słuə૭ | V／N |
|  |  |  |  |  |  |  |  |  | IKu！＾ 8 ә | 100］ |  |  | ع／88 | OM słuə๑ | V／N |
| uo！̣ヤV | Kupuld uO！？V | ssəวว૪ | ขภoכs | әdK」 solsəqs $\forall$ | †еә」」 әэセرй | meg | $\partial d K_{\perp}$ pord | won ィueno | uo！̣d！ | ұuәuodmoう бu！p！！ng | $\begin{aligned} & \text { ıəy } \\ & \text { ołoud } \end{aligned}$ | fəy әdues | ıəqunn fəy | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇mey6u！ |  |  |  |  |  |  |  |  |  | рәı！！ Би！̣ойuom 反u！̣об－ио səəฺગ！pu！」əqu＊ |  | рәц！̣冋әә」 s！ uо！̣эе ґецł səəеэ！ри！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | ```pu!чəq łכədsu! of ssəכэe ou - poom``` | sıəృеәч pu！̣əq 6u！̣хоя |  |  | てL／06 | mooy sџəqoy ！！כəつ | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | 孔uәsəıd sןе！иәңеш solsəqse ON | $\begin{gathered} \text { sıəəеәч } \\ \text { ןəлә\| чБ!н } \end{gathered}$ |  |  | レレ／06 | mooy sџəqoy ！！כəう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ұuәsəıd sןе！！әұеш solsəqse ou－uגəpow | ләґеәч ләјеМ |  |  | 0L／06 | mooy słəqoy I！つəつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!yəq łoədsu! } \\ \text { of ssəכэe } \\ \text { ou - poom } \end{gathered}$ | 6uịxoq ןəлә｜૫6！！ |  |  | 6／06 | mooy sџəqoy ！！כəう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  | 8／06 | mooy sџəqoy ！！כəう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ӘృコゝиОつ <br> 8 dolseld | sumnjoo 8 speәy칙 |  |  | L／06 | mooy słəəq0y I！つəつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!̣讯 łoədsu! } \\ \text { of ssəכэe } \\ \text { ou - poom } \end{gathered}$ | ıəs！${ }^{\text {d }}$ |  |  | 9／06 | mooy słəqoy I！つəつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | јuәsəıd sןе！ıәңеш solsəqse oN | yuis of ped |  |  | G／06 | mooy słəqoy ！！כəう | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> 8 pəsodxヨ | yı0Məd！d |  |  | 7／06 | سooy słəəqOy ！！つəつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əədıе <br>  | 100｜」 |  |  | ع／06 | mooy sұəəqOy ו！วəつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | YO！̣q \％delseld | S\｜PM |  |  | 乙／06 | mooy sцəəqоy ！！כəつ | $\forall / N$ |
| uo！̣จV | Klund uo！̣ヲ | ssəวэヤ | Әı0כS | $\begin{gathered} \text { ədK} \not \perp \\ \text { sołsəqs } \forall \end{gathered}$ | †еә」」 әэセцй | meg | $\partial \mathrm{dK} 1$ pold | WOn ィueno | uo！̣d！̣əsə］ | ұuәuodmoう 6u！p！！ng | $\begin{gathered} \text { fəy } \\ \text { otoud } \end{gathered}$ | fəપ્વ әdmes | $\begin{aligned} & \text { Iəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{aligned} & \text { on } \\ & \text { mooy } \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！！nbəл s！łиәшә6еиеш <br>  səəеэ！pu！лəqu＊ |  | рəı！̣nbəд s！ <br> uо！̣эе ұецł sәəеэ！pu！pəy |  |  |  |



|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxə ‘‘ełəW | gx sumnjoう |  |  | 8／E6 | Kıeıq！ 7 sə！pnłS ן | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!yəq loədsu! } \\ \text { of ssəכэe } \\ \text { ou - pooल } \end{gathered}$ | бu！ppeן uwnjoう |  |  | L／E6 | Kıeıq！ 7 so！phłS ןeoo | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | мори！м ןеuләəu！ ләpun sןəued |  |  | 9／E6 | Kıeıq！ 7 sə！pnłS｜eכo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рıеояəıq！」 | S\｜EM of sjoued |  |  | G／E6 | Kıeıq！ 7 <br>  | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ | yıOMəd！d |  |  | ャ／E6 | Kıеıq！ 7 sə！pnłS ןEכO7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | łədıе ₹ әృəコンиоう | 100｜」 |  |  | $\varepsilon / \varepsilon 6$ | Kıеıq！ 7 sə！pnłS ןeooา | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youn \％ırıseld | S\｜PM |  |  | 乙／E6 | Kıeıq！ 7 Sə！pMIS ןEכO7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！ə əq！！ןeıəu！u әреш әи！чગеш | 6u！！！əつ |  |  | L／E6 | Kıeıq！ 7 sə！pnłS｜eכō | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!чəq łכədsu! Oᄀ SSəつכe ou - \Ołseld``` | реәчя｜ng |  |  | 9／Z6 | ƏıОłS | $\forall / \mathrm{N}$ |
| ə6еuew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV | ə！！！op！ooィว pəunsəəd <br> －spıen6yse｜t solseqse рәјеәэиоэ u！̣еұиоэ Кеш | леәБчэџ！мя ןอว！џ๖əઇヨ | Z00 | $\forall / \mathrm{N}$ | 9／Z6 | อృоłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рәб6еןun <br> 8 pəsodxヨ | YıOMəd！d |  |  | 七／Z6 | əıOłS | $\forall / \mathrm{N}$ |
| uo！̣ヤV | Kulu！d uo！̣ว | ssəวงヤ | əı0ЈS | $ə d K \perp$ <br> sOł̧əəqS $\forall$ | łеә」」 әэセцй | meg | $\partial d K \perp$ <br> pold | WOO fueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ng | $\begin{gathered} \text { fəy } \\ \text { otoud } \end{gathered}$ | fəy әןdues | $\begin{aligned} & \text { ıəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9レ：əృe马 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәц！！nbəл s！ұиәшәб́иеш бu！̣ои！！uou bu！̣об－uо sәృеэ！pu！ләqu＊ |  |  | рәı！̣nbəд s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | pə66eןun <br> 8 pəsodxヨ | 6u！！！əつ pəpuədsns əлоqе уломәd！d |  |  | 8レ／E6 | Kıeıq！ 7 se！pnłS ן | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | łuәsəıd sןe！̣әұеш sołsəqse ON | 6uisou diels |  |  | LL／E6 | Kıeıq！ 7 so！phłS ןeכoך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ıəıseld | 6u！！！əつ pəpuədsns ə＾оqe бu！！！əつ |  |  | 91／E6 | Kıeıq！ 7 sə！pnłS ןeכoך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq \longmapstoכədsu! O_ SSəכગe ou - \əlseld``` | zх би！̣peן uwnjoう |  |  | Gl／E6 | Kıeıq！ 7 se！pmłS ןeכoך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！чəq ŋəədsu！ <br> 아 Ssəつગe <br> ou－poom | 6u！xoq ｜ə＾ə｜МОך |  |  | ヤレ／E6 | Kıeıq！ 7 sə！pmłS ןeכō | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！чəq ŋəədsu！ <br> 아 ssəวэอ <br> ou－poom | ১əS！${ }^{\text {I }}$ |  |  | عL／E6 | Kıeıq！ 7 sə！pnłS ןeכoך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | St！fos mopu！M |  |  | てレ／E6 | Kıeıq！ 7 sə！pnłS ןeכoך | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ıəłseld | 6u！！！əo pəpuədsns ol spuełsdn |  |  | レレ／E6 | Kıeıq！ 7 sə！pnłS ןEכOך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əə łəədsu！ <br> 아 ssəoวe <br> ou－poom | 6u！̣xoq ןə＾ə｜МОך |  |  | OL／E6 | Kıeıq！ 7 sə！pnłS ן®ooך | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ 아 SSəつગอ ou－」əłfeld | s॥ем uo！！！ued |  |  | 6／E6 | Kıeıq！ 7 se！pmłs ןeכoך | $\forall / N$ |
| uo！̣ヤV | Kiluold uo！！วヲ | ssəวэヤ | 2ı0ЈS | $ə d K \perp$ sołsəqs $\forall$ | ¡еә」」 әэセцй | med | $\partial \mathrm{d} \mathrm{K}_{\perp}$ <br> pold | WOO дueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ing | $\begin{gathered} \text { fəy } \\ \text { ołoud } \end{gathered}$ | fəy әઇdues | •əqunN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9レ：əłe马 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meyठu！ |  |  |  |  |  |  |  |  |  | рәц！！nbəл s！ұиәшәбеиеш Би！̣оң！uии бu！̣об－ио səןеэ！pu！」əqu＊ |  | рәı！̣nbəд s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |



|  |  |  |  |  |  |  |  |  |  | Jəs！！ |  |  | 8／96 | Кqq07 | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！̣əq ఛəədsu！ <br> 아 SSəつગอ <br> ou－dəlseld | s\｜EM uo！t！ |  |  | L／96 | Кq907 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!̣əq łכədsu! } \\ \text { ol ssəכ૭e } \\ \text { ou - ıəృseld } \end{gathered}$ | uwnı0う |  |  | 9／96 | Кq907 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ŋəədsu！ <br> Oł SSəગગe ON | syeys |  |  | G／96 | Кqq07 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | Yı0мəd！d |  |  | ャ／96 | Kqq07 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ıイиı＾я әృәıиоэ | 100｜」 |  |  | ع／96 | Кхqq07 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq 8 ıәıseld | S\｜eM |  |  | 乙／96 | ר¢ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！əдq！！ןeıəu！̣ әреш әи！чэеш | Øu！！！əつ |  |  | L／96 | Кqq07 7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq ફəədsu！ <br> 아 SSəつวอ <br> ou－dəłseld | 6u！！！əつ pəpuədsns əлоqе реәцห｜ng |  |  | てL／G6 | mooy бu！ңəәW | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | delseld | Кu！！！əコ pəpuədsns əлоqе 6u！！！əつ 아 spoued |  |  | レレ／G6 | mooy бu！ңəәW | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ıəıseld | 6u！！！əコ pəpuədsns əлоqе 反u！！！əə |  |  | 0l／G6 | mooy бu！ңəәW | $\forall / \mathrm{N}$ |
| uo！̣ว | Kulud uо！̣ヲ | ssəวગヤ | əı0ЈS | $ə d K_{\perp}$ solssəqS $\forall$ | $\begin{gathered} \text { †еə』1 } \\ \text { әэeرuns } \end{gathered}$ | meg | $\begin{aligned} & \partial \mathrm{d}_{\perp} \\ & \text { pold } \end{aligned}$ | WOn fueno | uo！̣d！̣əsə | ұиәиodmoう 6u！p！！ng | fəy ołOUd | fəy әןdues | əəqunN fəy | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәц！！nbәд s！ұиәшәбеиеш 6u！̣ои！！uou bu！̣oб－uo səןฺэ！pu！」əqu＊ |  |  | рәı！̣nbәд s！ <br>  |  |  |  |


|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ | Yıомəd！d |  |  | т／86 | ॥ІММ！els | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | əృəゝนОつ | 100｜」 |  |  | ع／86 | ॥әмı！els | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | YOİA 8 delseld | S\｜eM |  |  | 乙／86 | ｜｜әMılelS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ |  |  | L／86 | ॥əMı！els | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!\əq \longmapsto\niədsu! Of Ssəつづ ou - \əl\Seld``` | 6uixoq ןəлə｜૫Б！ H |  |  | G／L6 | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pesodxヨ | yıoməd！d |  |  | 七／L6 | ƏıОłS | V／N |
|  |  |  |  |  |  |  |  |  | ｜Ku！̣＾uләрош 8 әдәəиоう | 100｜ |  |  | ع／L6 | əı૦łS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Iəjsejd <br> －s\｜em uo！！！ued Yગ！ıq \＆dəłseld | S\｜PM |  |  | Z／L6 | əı૦łS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ১əłseld | 6u！！！əつ |  |  | l／L6 | əృ૦łS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun я pəsodxə ‘‘セłəю | бu！！！əコ pəpuədsns əィоqе бu！̣フñ |  |  | レレ／96 | Kqq07 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pә66ejun 8 pəsodxヨ | Бu！！əə pəриədsns əлоqе yдомəd！d |  |  | 01／96 | Кqqo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ pəpuədsns əлоqе бu！！！əə |  |  | 6／96 | Kqqo7 | $\forall / \mathrm{N}$ |
| uO！ヤว＊ | Kululud uo！̣ヲ | ssəวэヤ | əı0ЈS | $ə d K_{\perp}$ sOlfəəqS $\forall$ | †еә」」 әэецй | meg | ədK」 <br> pold | WOn ィueno | uo！̣d！ısə | ұиәиodmoう 6u！p！！ing | Iəy OłOUd | fəy әןdues | ıəqunn fəy | mooy | $\begin{gathered} \circ \mathrm{ON} \\ \mathrm{mooy} \end{gathered}$ |
| GLOZ／L0／9レ：əfeด |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meyठu！ |  |  |  |  |  |  |  |  | рәц！！ бии̣о！！uou бu！̣о－ио sәןеэ！pu！лəqu＊ |  |  | pəı！̣nbəд s！ uо！̣эe łецł səəеэ！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | əృココニ૦つ <br>  | 6u！！！əつ |  | LIOL |  |  | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | рә66еןun » pəsodxə ‘‘ełəW | 6и！！！əつ pəpuədsns əлоqе 6u！̣эnの |  |  | レV／00レ | mooy səл！чэлฟ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ | 6u！！！əコ pəpuədsns әлоqе уломәd！d |  |  | OL／OOL | mooy səл！чЈ．」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  8 dəlseld | бu！！！əつ pəpuədsns əлоqе speәц丬｜ng |  |  | 6／00 L | mooy səл！чЈ．」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәл๐иоэ <br> 8 Jəlseld | Би！！！əコ pəpuədsns əлоqе 6u！！！əつ |  |  | 8／001 | mooy səл！чэлฟ | V／N |
|  |  |  |  |  |  |  |  |  | әృコวนОว <br>  | sumnjoう |  |  | L／OOL | mooy səハ！Чコノヲ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ӘృəゝนОつ <br> 8 ปəlseld | St！fos mopu！M |  |  | 9／00 | mooy səл！чЈлฟ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom | бu！！！əコ pəpuədsns of spuefsdn |  |  | G／00 L | mooy <br>  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рәб6еןun <br> 8 pəsodxヨ | yıoməd！d |  |  | ヤ／OOL | mooy səл！чЈлฟ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıeэ 8 әృəコンиОว | 100｜ |  |  | ع／OOL | mooy səл！чЈ．」 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq＞ıəıseld | S\｜eM |  |  | Z／OOL | wooy sə＾！૫ગノ | $\forall / \mathrm{N}$ |
| U0！ヤヤ＊ | Kluoudd uo！̣כヤ | ssəวગヤ | Əı0ЈS | $\partial d K_{\perp}$ <br> solfsəqs $\forall$ | łеә」」 әэセцй | meg | ədK」 <br> pold | won дueno | uo！̣d！ıつsə | ¡uәuodmoう Бu！p！！ng | $\begin{gathered} \text { fəy } \\ \text { ołoud } \end{gathered}$ | よəy əઇயues | $\begin{aligned} & \text { ıəqunn } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9レ：əృe马 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meyठu！ |  |  |  |  |  |  |  |  |  | рәц！пbәд s！ұuәшәбеиеи Би！̣оң！uиu бu！̣об－ио səəeo！pu！」əqu＊ |  | рәц！！nbəд s！ uо！̣эe ұецł səృеэ！̣и！рәу |  |  |  |




|  |  |  |  |  |  |  |  |  | łəədsu！ 아 SSəコวe рә！！u！I Sı！！ełs əлоqе $\downarrow$ ๖！！əН | 6u！！！əつ pəpuədsns әлоqヲ |  |  | 6／90 | ॥ƏMıIEIS | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  | бu！！！əつ pәриәdsns әлоqе уомәd！d |  |  | 8／90 | ॥ӘMıIEIS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әдq！ן ןeıəu！̣ әреш әи！чэеพ | 6u！！！əつ pəpuədsns əлоqе үеәяə』！」 |  |  | L／901 |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ pəpuədsns əィоqе 6u！！！əつ |  |  | 9／90レ |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | јuәsəıd sןе！！əəеш solsəəse ou－uגəpow | 6uisou ג！els |  |  | G／90 L | ॥əMılılS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeכ！！dde $\ddagger 0 \mathrm{~N}$ | yıомәd！d |  |  | 7／901 |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łәdıeэ 8 poom | 1001」 |  |  | $\varepsilon / 901$ |  | $\forall / \mathrm{N}$ |
| ə6еuew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | $z^{\text {m } 6}$ | ә！！๐๐イıчコ－ 6u！̣еоэ рәınұхәџ 8 หว！̣q ‘גəાseld | $s \\| \mathrm{CM}$ | $\varepsilon 00$ | $\begin{gathered} \text { LZ99l/dS } \\ \mathrm{S} \forall \end{gathered}$ | Z／901 | ॥əMuletS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！！Әıq！ן ן๖əu！u әреш əи！чวセW | 6u！！！əつ |  |  | L／90 |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృәЈиоつ <br> 8 ฝəlseld | реәчя｜ng |  |  | 6／GOL | әО！НО | $\forall / \mathrm{N}$ |
| uo！̣จ | Kuould uo！̣ァV | ssəวงヤ | əıOכS | ədK」 <br> solfsəqs $\forall$ | ¡еә」 әэセرй | meg | $\partial d K \perp$ <br> pold | WOn なueno | uo！̣d！̣əsə］ | ¡uәuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy әઇdues | $\begin{aligned} & \text { ıəqunN } \\ & \text { fəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9L ：ə尸e］LGZOO／IJ／VW／OON ：ON Hodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәц！！nbə» s！łиәшәбеиеш бu！̣ои！！uou bu！̣об－uо səןฺэ！pu！」əqu＊ |  |  | pəı！̣nbəд s！ uо！̣эe łецł səəеэ！pu！pəy |  |  |  |




Surveyor：A．Bennett

|  |  |  |  |  |  |  |  |  | əqeэ！！dde łoN | Yı0Məd！d |  |  | マ／Oレレ | mooy 6u！ıOS YOOq | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom | 100｜」 |  |  | と／Oレレ | mooy 6u！pos yoog | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | YOudq \％ḋıseld | S\｜PM |  |  | て／Oレレ | mooy 6u！pus yoog | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！ə әдq！ן ןеләu！̣u әреш әи！чэеW | 6u！！！əつ |  |  | レ／Oレレ | mooy 6u！pos yoog | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 Ssəวગe <br> ou－」əłseld | реәчяing |  |  | $\varepsilon レ / 601$ | Kqqo | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeo！｜dde $\ddagger 0 \mathrm{~N}$ | 6u！！！əコ pəpuədsns ə＾Oqе үјомәd！d |  |  | てL／601 | Kqq07 7 | $\forall / \mathrm{N}$ |
| рдеоqлəло」о əృеןnsdeэuヨ | MO7 | $\downarrow$ | 6 | 乙 | 乙 | $\varepsilon$ | 乙 | $z_{\text {u }} \mathrm{OL}$ | ә！！！osイıuว ə！！souv | 6u！！！əつ pəpuədsns əлоqе 6u！！！əつ | 610 | LSEGI／NG | レレ／60レ | Kq907 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | $\begin{gathered} \text { ı00р } \\ \text { әлоqе pıeog } \end{gathered}$ |  |  | OL／601 | Kq907 7 | $\forall / \mathrm{N}$ |
| ə6euew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV | ә！！！ంр！ฺ૦ノว pounsərd <br> －spıen6use｜f solsəəqse рәјеәэиоэ u！̣еұuos Kew | леәбчэџ！мя ןอગ！џəəઇヨ | 乙00 | $\forall / N$ | 6／601 | Kqqo 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！чəq łəədsu！ 아 SSəつગe ou－ןełə | ł！Hos mopu！M |  |  | 8／60 | K9q07 7 | $\forall / \mathrm{N}$ |
| uo！̣จ＊ | Kluold uo！̣จ | ssəววト | əı0ЈS | $ə d K \perp$ solsəqS $\forall$ | ןеә」」 әэセцй | meg | $\begin{aligned} & \partial \mathrm{d} \mathrm{~K}_{\perp} \\ & \text { pold } \end{aligned}$ | WOn ィueno | uo！̣d！ıองə | ұuәuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | よəy әઇdues | ```ıəqumnN fəy``` | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：ə尸ę LGZ00／IJ／VW／OON ：on fodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meyठu！ |  |  |  |  |  |  |  |  |  бu！̣оң！uou бu！̣об－ио sәృеэ！pu！ләqu＊ |  |  | pəı！̣nbәд s！ uо！̣эe łецł səəеэ！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ |  | YıOMəd！d |  |  |  | カノレレ | ｜｜əMı！еłS | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әృәృиоว |  | 1001 ل1 |  |  |  | を／レレレ | ｜｜әMılels | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | YO！ıq＞dəlseld |  | S\｜eM |  |  |  | てノレレ | ॥əмı！ełS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәл๐иоэ 8 」əlseld |  | 6u！！！əつ |  |  |  | レレレレ | ॥əMı！elS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun я pəsodxə ‘¡ŁəəW |  | бu！！！əつ pəpuədsns әлоqе 6u！̣ənの |  |  |  | レレ／Oレレ | mooy 6u！nos yoog | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pә66eןun <br> » pəsodxヨ |  | 6u！！！əつ pəpuədsns әлоqе уломәd！d |  |  |  | OL／OLV | mooy 6u！nos yoog | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!̣əq loədsu! } \\ \text { of ssəכગe } \\ \text { ou - əəŋseld } \end{gathered}$ |  | бu！！！əo pəpuədsns əлоqе peәччןng |  |  |  | 6／0レレ | mooy 6u！pos yoog | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | dəlseld |  | 6u！！！əつ pəpuədsns əлоqе 6u！！！əつ |  |  |  | 8／0レレ | mooy 6u！pos yoog | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 SSəつગอ <br> ou－dəlseld |  | peәц年的g |  |  |  | L／Oレレ | mooy 6uipuos yoog | V／N |
|  |  |  |  |  |  |  |  |  | pu！̣əq əəədsu！ Ot Ssəつวe ou <br>  |  | St！fos mopu！$M$ |  |  |  | 9／0レレ | mooy бu！nos yoog | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> Ot SSəつગe ou <br> －poom 8 dəłseld |  |  |  |  |  | G／OLレ | mooy 6u！pos yoog | $\forall / \mathrm{N}$ |
| UO！！习习 | Kululd иO！़ヲ | ssəวગト | əı03S | $ə d K \perp$ solsəqs $\forall$ | †еә」」 әэецй | meg | ədK」 <br> pold | WOO Aueno | uo！̣d！̣əડə |  | ¡uәuodmoう 6u！p！！ing | $\begin{aligned} & \text { fəy } \\ & \text { otou } \end{aligned}$ |  | fəy әઇdues | əəqunN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9L：əృȩ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  <br>  səןеэ！pu！」əqu＊ |  |  |  | рәц！！nbəд s！ uо！̣эе ұецł sәəеэ！！pu！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | əృəゝ价 | 6u！！！əつ pəpuədsns əィоqе ถu！！！əう |  |  | G／ELレ | еәл＊6u！！！eм | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | əqeכ！！dde $\ddagger 0 \mathrm{~N}$ | YıOMəd！d |  |  | ャ／とレレ | еәл＊6u！！！eм | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ィКиıィ я әృәıиоэ | 100｜」 |  |  | ย／とレレ | еәл＊6u！！！eм | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ıəıseld | $s \\| e M$ |  |  | て／とレレ | еәл＊6u！！！eм | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！！әıq！y ןeıəu！u әреш әи！чэеш | ¢u！！！əつ |  |  | レヒレレ | еәл＊6u！！em | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ləədsu！ ol ssəээe ou －suət！pəıołS | реәчя｜ng |  |  | 9／てレレ | preoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ұuәsə』 sןе！ләғеш solsəqse ou－uдәроW | леәбчэџ！мя <br>  |  |  | G／てレレ | pıeoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ | yıOMəd！d |  |  | マ／てレレ | preoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | łədıes 8 poom | 100｜」 |  |  | と／てレレ | preoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delsejd <br> －sןem uo！！！ued Yગ！ıq \＆dəlseld | $s \\| P M$ |  |  | でてレレ | preoqdno ว！џŋəココ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ |  |  | レ／てレレ | preoqdno ว！џวəコヨ | $\forall / \mathrm{N}$ |
| ә6еuew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | HO V | Әן！ | łəyse〕 | 900 | $\begin{gathered} \text { Zع99 } / \text { /dS } \\ \text { S } \forall \end{gathered}$ | G／レレレ | ｜｜əMLIEIS | $\forall / \mathrm{N}$ |
| uo！łov | Kupuld uo！̣ナ | ssəวગヤ | ƏıООS |  | †セə」1 əวセนกㄴ | meg | $\partial d K_{\perp}$ pold | WOO fueno | uo！̣d！ısə | ¡uәuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | よəy әोdues | əəqunN fəy | mooy | $\begin{gathered} \text { 'ON } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9レ：əృe马 |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәı！̣nbəィ s！ןuәшәбеиеш 6u！̣ои！！uou 6u！̣о6－uо səృеэ！pu！ләqu＊ |  |  | рәц！！nbəд s！ <br>  |  |  |  |


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|  |  |  |  |  |  |  |  |  | әґəว๐иоว | 6u！！！əo pəpuədsns әлоqе 6u！！！əつ |  |  | 9／Lレレ | OM pelqesio | V／N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！чəq ఛəədsu！ <br> 아 ssəэวย ou－дəə Seld | IIem uo！！！？ |  |  | G／LIL | OM pelqesio | V／N |
|  |  |  |  |  |  |  |  |  | рә66eןun 8 pəsodxヨ | уломәd！d |  |  | も／Lレレ | OM pəqes！o | V／N |
|  |  |  |  |  |  |  |  |  |  |  |  |  | と／Lレレ | OM pəqes！a | V／N |
|  |  |  |  |  |  |  |  |  | Yว！̣q 8 dəłseld | S\｜PM |  |  | て／LIL | OM pəlqes！a | V／N |
|  |  |  |  |  |  |  |  |  | sə！！！әдq！！ןeıəu！u әреш әи！чэеพ | 6u！！！əว |  |  | L／Lレレ | OM perqesio | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq ŋəədsu！ of ssəoวe ou－גəłłSEld | umnjoכ |  |  | OL／91レ | $\varepsilon$ mooy мə！ヘəəృu｜ | V／N |
|  |  |  |  |  |  |  |  |  | әәə๐иоว | 6u！！！ə๐ pəpuədsns әлоqе реәчหїя |  |  | 6／911 | $\varepsilon$ mooy мə！＾ฝəғи｜ | V／N |
|  |  |  |  |  |  |  |  |  | delseld | Ки！！！əコ pəpuədsns әлоqе syеәлqәл！」 |  |  | 8／91レ | $\varepsilon$ mooy мә！мәəృи | V／N |
|  |  |  |  |  |  |  |  |  | letəw | 6u！！！əo pəpuədsns әлоqе ถu！̣フñ |  |  | 2／91レ | $\varepsilon$ mooy мə！＾ฝəұи｜ | V／N |
|  |  |  |  |  |  |  |  |  | ө｜qeo！！dde $\ddagger$ ¢ | Gu！！！əコ рәриədsns әлоqе уомәd！d |  |  | 9／91レ | $\varepsilon$ mooy мә！ヘıәұи｜ | V／N |
| uO！̣ヤ | Kiluold uo！̣כヲ | ssəวэ＊ | ขı0эs | әdK」 solsəqs | ŋеә」 әэセцй | meg | әdK」 pold | won дueno | uo！̣duısəə | ұиәuodmoう 6u！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { oŋoud } \end{aligned}$ | fəy әdmes | dəquinN foy | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L：əృeg LGZ00／IJ／VW／OON ：on uodey |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 ION ‘шецби！ |  |  |  |  |  |  |  |  |  |  <br>  səృอכ！pu！」əqu＊ |  | рәц！̣nbәл s！ uо！̣эе ґецł sәృеэ！ри！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | рә66еןun я pəsodxə ‘‘ŁəəW |  | 6u！！！əo pəpuədsns әлоqе əd！d－əృseM |  |  | 9／Lてし | Кqqo 7 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әృə๐นОэ／рооМ |  | 6u！！！əコ pəpuədsns əィоqе ถu！！！əう |  |  | G／LてL | Кqqo 7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeכ！！dde $\ddagger$（0N |  | Yıомәd！d |  |  | カ／レてレ | Kqqoך | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əədıе <br>  |  | 1001 |  |  | と／レてレ | Kqqo7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | YOİq 8 delseld |  | S\｜PM |  |  | てIしてし | Kqqoך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！！әдq！ן ןeıəu！u әреш әи！чэеш |  | 6u！！！əつ |  |  | レ／レてレ | Кqq07 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  |  | 6u！̣oq ןəлә цઠ！！ |  |  | OL／OZレ | ysə̨ पse〕 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  | 6／OZし | YSəQ पseכ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  |  | 6u！！！əつ pəpuədsns əлоqе әd！̣－әıseM |  |  | 8／0Zレ | ysəa ysej | V／N |
|  |  |  |  |  |  |  |  |  | pә66eןun 8 pəsodxə ‘‘ełəW |  | 6u！ |  |  | L／OZ | Ysə̨ पseכ | $\forall / \mathrm{N}$ |
| uo！̣ヤ＊ | K！uoud uо！̣ヲ | ssəวงヤ | əı0ЈS | $\partial \mathrm{d} K_{\perp}$ solssəqs $\forall$ | †еә」」 әэセцй | meg | $\partial d K \perp$ pold | WOO fueno | uo！̣d！ıอsə |  | ¡uәuodmoう 6u！p！！ing | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | よəy əઇᅵues | $\begin{gathered} \text { dəqunN } \\ \text { fəy } \end{gathered}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәц！！nbəл s！ұиәшәбеиеш Бu！̣оң！！uou бu！̣об－ио sәןеэ！pu！」əqu＊ |  |  | pəı！̣nbəд s！ uо！̣эе ұецł sәəеэ！ри！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  |  | yıoməd！d |  |  | ヤ／\＆てレ | อృ๐łS | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | əədıэ ₹ әృəっиоว | 100｜」 |  |  | と／とてし | ƏıOłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | S\｜eM |  |  | て／とてレ | อృОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！Əાq！！ןセıəu！u әреய əи！чગеW | 6u！！！ə |  |  | レ／Eてレ | ƏıOłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxə ‘‘セłəわ | రи！！！əつ pəpuədsns әлоqе ถu！̣эnの |  |  | L／てZし | Əэ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeэ！！dde $\ddagger 0 \mathrm{~N}$ | 6u！！！əつ pəpuədsns əィоqе yıOMəd！d |  |  | 9／ててレ | ƏО！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | Cu！！！əコ pəpuədsns əлоqе Бu！！！əつ |  |  | G／てZし | əэ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əાqeכ！！dde łon | Yı0Məd！d |  |  | も／ててし | әэ！みО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əədıе ₹ әృəコンиоう | 100｜ |  |  | と／てZし | әЈ！円О | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq＞delseld | S\｜eM |  |  | でてZし | əอ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！ə әдq！ן ןeıəu！̣u әреш әи！！эеW | 6u！！！ə |  |  | レ／てZレ | ƏО！円О | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృəゝи๐つ | бu！！！əつ pəpuədsns əлоqе реәчห｜ng |  |  | L／レてし | Kqq07 | $\forall / \mathrm{N}$ |
| UO！！习习 | Kulud uo！̣ヲ | ssəวэヤ | əı03s | $\partial \mathrm{d} K_{\perp}$ solssəqs $\forall$ | †セə」1 ә әృนกร | meg | әdK」 <br> pold | WOO łueno | uo！̣d！̣əsə | ұиәиodmoう 6u！̣p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy əાdues | $\begin{aligned} & \text { ıəqunN } \\ & \text { əəy } \end{aligned}$ | mooy | $\begin{aligned} & \text { on } \\ & \text { mooy } \end{aligned}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！̣nbə» s！јuәшә6еиеш бии̣о！！uou бu！̣о－ио sәృеэ！pu！ләqu＊ |  | рәı！̣nbәд s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | ｜Kи！＾ 8 роом | 1001 |  |  | E／Gてレ | eəır Keld | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | Younq \％delseld | S\｜PM |  |  | Z／GZし |  | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！！әдq！y ןeıəu！u әреш әи！чэеW | 6u！！！əつ |  |  | L／GZレ | eər $\forall$ Keld | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әдq！！ןeıəu！u әреш әи！чэеш | sуеәляə！ |  |  | 9／ヤてし | pıeoqdno ว！ฝગอ⿰丨コ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | јuәsəıd sןе！ләңеш sołsəase ON | леәБчэџ！мя <br>  |  |  | G／ヤてし | pıeoqdno ว！ฝ๖əココ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әдq！ן ןләu！̣ әреш әи！чэеw | yıOMəd！d |  |  | ヤ／七てレ | preoqdno ว！॥ヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәлиоэ <br> 8 poom | 100｜」 |  |  | と／ヤてレ | pıeoqdno ว！ฝગอ⿰丨コ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yว！入ด | S\｜PM |  |  | て／ヤてし | preoqdno ว！ฝ๖əココ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృココニロつ <br> 8 גə⿰亻⿱丶⿻工二又 | 6u！！！əつ |  |  | レ／もてレ | pıeoqdno ว！ฝ๖əココ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxə ‘‘еłəW | бu！！！əo pəpuədsns əィоqе 6u！̣フnの |  |  | L／とてし | อృОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əque！！dde łON | 6u！！！əつ pəpuədsns әлоqе уломәd！d |  |  | 9／とてし | อృОłS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ pəpuədsns əлоqе 6u！！！əつ |  |  | G／Eてレ | 2ıOłS | $\forall / \mathrm{N}$ |
| uo！̣ว | Kluoudd uo！̣ヲ | sऽəวગヤ | əı0ЈS | әdKı solsəəqs $\forall$ | łеә」」 әэセцй | med | әdKı <br> pold | won ィueno | uo！̣d！usə | ¡uәuodmoう 6u！p！！ing | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | よəy әઇdues | ıəquinN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9レ：əıP］ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN ‘mey6u！ |  |  |  |  |  |  |  |  |  |  Би！̣оң！uou бu！̣об－ио səłeэ！！pu！」əqū |  | рәı！̣nbәд s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |

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|  |  |  |  |  |  |  |  |  | ŋəədsu！ <br> of ssəoうァ on | Heys |  |  | L／9Z1 | mooy dә犭วОך | V／N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！ 4 əq ફəədsu！ <br> 아 ssəoうe <br> ou－Jətseld | $\begin{gathered} \text { 6u!̣хоq } \\ \text { ןəə чб!н } \end{gathered}$ |  |  | 9／9Zし | mooy dә犭วОך | V／N |
|  |  |  |  |  |  |  |  |  | delseld | 6и！̣ppeן uயnןoう |  |  | G／9Zし | mooy dә犭วОך | V／N |
|  |  |  |  |  |  |  |  |  | pə66ejun <br> 8 pəsodxヨ | yıOMəd！d |  |  | t／9Zl | шооу дәуวоך | V／N |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | $z^{\text {m 91 }}$ | рәңכəəəp－uon <br> －｜Ки！̣ィ Кәəб <br> дч6！！\％роом | 100｜」 | V／N | Lt99l／dS | E／9ZL | mooy dәуวоך | V／N |
|  |  |  |  |  |  |  |  |  | Yว！̣q \％дәıseld | s॥em |  |  | Z／92レ | mooy dәуフО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sә！̣ әдq！ןедәu！！ әреш әи！чэеш | 6u！！！əЭ |  |  | L／9ZL | mooy dәуวОך | V／N |
|  |  |  |  |  |  |  |  |  | pu！чəq ఛəədsu！ <br> of ssəวэe <br> ou－poom | $\begin{gathered} \text { 6u!xoq } \\ \text { ןəə чઠ!! } \end{gathered}$ |  |  | 8／GZ1 | eart Keld | V／N |
|  |  |  |  |  |  |  |  |  | pu！чəq ફəədsu！ <br> 아 ssəoうe <br>  |  |  |  | L／GZL | ealt Keld | V／N |
|  |  |  |  |  |  |  |  |  | әұәлиоว | Su！！！əつ pəpuədsns əлоqe 6u！！！əう |  |  | 9／GZし | eart Keld | V／N |
|  |  |  |  |  |  |  |  |  | ұuәsəıd sןеиәәцеи solsəəqse oN | 6uisou diels |  |  | G／GZ1 | eart Keld | V／N |
|  |  |  |  |  |  |  |  |  | әqeo！！dde $\ddagger$ ¢ | уоммәd！d |  |  | t／GZ1 | eәt | V／N |
| uo！̣｜ | Kluoud uo！̣כヤ | ssəวว＊ | əıoss | әdKı solsəqs $\forall$ | Łеә」」 әэецй | mea | әdKı <br> pold | won ィueno | uo！̣d！useə | łиәиodmoう 6u！p！！ng | Ғəy <br>  | $\begin{array}{l}\text { Iəy } \\ \text { əldues }\end{array}$ | 」əqunn fəy | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәı！！ Би！̣ойuom 反u！̣об－ио səəฺગ！pu！」əqu＊ |  |  | рәц！！bəュ s！ ио！̣эе łецł səృеэ！̣u！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | גəlseld | 6u！！！əつ |  |  | L／8てし | 10p！10才 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | pu！̣əq əəədsu！ of ssəつวe ou <br>  | Јəs！${ }^{\text {d }}$ |  |  | 9／Lてし | spıeoqdn〕 ว！џヤƏコヨ | $\forall / N$ |
| ə6еuew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV | sołsəqse рәןеәэиоэ u！̣łuos Kew | леәбчэฺ！мя ןอગ！ŋ๖əઇヨ | ZOO | $\forall / N$ | G／LZレ | spıeoqdn〕 ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun <br> 8 pəsodxヨ | YıOMəd！d |  |  | ヤ／Lてし | spıeoqdnう ว！џっəコヨ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  | 100｜」 |  |  | E／Lてレ | spıeoqdnう ว！џヤƏコヨ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | poom 8 delseld | S\｜PM |  |  | て／Lてし | spıeoqdnう ว！џっəコヨ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | delsejd <br> －бu！！！ə みed sə！！əఎq！y ןセぇəu！u әреш əи！บэеW | 6u！！əə |  |  | L／Lてレ | spıeoqdnう ว！џวəコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq łכədsu! O+ Ssəつつe Ou - \OlSeld``` | Su！！！əつ pəpuədsns әлоqe реәччй |  |  | OL／9てレ | mooy də૪ગ0ך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əコ pəpuədsns əлоqе бu！！！əう |  |  | 6／9てレ | mooy dəソગ0ך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əəq łəədsu！ Ot SSəつวe ou <br> －poom 8 dəlseld | 6uixog |  |  | 8／9Zし | ய00Y də૪ગОך | $\forall / \mathrm{N}$ |
| uo！̣ov | Kululd uо！̣ヲ | ssəววヤ | əı03S | $ə d K_{\perp}$ solssəqS $\forall$ | ¡еә」」 əэセృй | mę | ədK」 <br> pold | WOO дueno | uo！̣d！ussə | ұuәuodmoう চu！p！！ng | fəy 0ł04d | よəy әोdues | ```_əqunnN fəy``` | mooy | $\begin{aligned} & \text { on } \\ & \text { mooy } \end{aligned}$ |
| GL0Z／L0／9レ：əヤセד |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәı！！nbәд s！ұиәшә6́eueu Би！̣оң！uou бu！̣об－ио səןеэ！pu！」əqu＊ |  | pəı！̣nbəд s！ uо！̣эе ұецł sәృеэ！ри！рәу |  |  |  |


| əదeuew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV | ә！！！op！ooィว pəunsəлd <br> －spuen6ysey solsəqse рәןеәэиоэ u！̣едиоo Kew | леәБчэџ！мя ןอэ！џวәృヨ | 乙00 | $\forall / N$ | G／6てし | pıeoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әдq！！ןеләи！̣ әреш әи！чэеш чฉ！м рәбБеןun 8 pəsodxヨ | yı0мəd！d |  |  | ヤ／6てレ | pıeoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | $\imath^{\text {W }}$ 乙 | рəృ૭əəəр－uоN <br> －ІКи！̣ィ Кәдб ұчб！ | 1001」 | $\forall / N$ | $\begin{gathered} \text { Lヵ99l/dS } \\ s \forall \end{gathered}$ | \＆／6てレ | preoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delsejd <br> －sाem uol！uned yว！ıq 8 dəłseld | S\｜eM |  |  | て／6てレ | pueoqdno ว！џヤƏコヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | 6u！！！əつ |  |  | レ／6てレ | preoqdno ว！џっəココ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!чəq łכədsu! Oᄀ SSəつכe OU - \O\SEld``` | ॥ем uo！t！ued |  |  | L／8てし | лор！גоЭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!̣əq łכədsu! } \\ \text { oł ssəכэe } \\ \text { ou - גəŋseld } \end{gathered}$ | реәчя｜ng |  |  | 9／8てし | лор！גоЭ | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | W L | 孔uәsə』 sןe！ıәңеш solsəqse oN | 6uisou delts | $\forall / N$ | てヵ99l／dS | G／8てし | лор！גоЭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əqeэ！！dde $\ddagger 0 \mathrm{~N}$ | yıoməd！d |  |  | も／8てし | лор！ג0才 | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | z ${ }^{\text {W OL }}$ | рəłગəəр－uON－ ｜Ки！̣ィ Кәлб ұЧБ！！邓 әұəગиоО＇poom | 1001」 | $\forall / \mathrm{N}$ | $\begin{gathered} \text { Lt99l/dS } \\ s \forall \end{gathered}$ | \＆／8てレ | лор！גоЭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq \％delseld | $s \\| \mathrm{M} M$ |  |  | て／8てレ | ı0р！10才 | $\forall / \mathrm{N}$ |
| uo！̣o | K！uoud uо！̣ヲ | ssəวગ૪ | əı0Ј | $ə d K_{\perp}$ solsəəqs $\forall$ | ¡еә」 әэセృй | mer | $\partial d K \perp$ <br> pold | WOn Aueno | uo！̣d！usə | ¡uәuodmoう 6u！p！！ing | $\begin{aligned} & \text { fəy } \\ & \text { oloud } \end{aligned}$ | fəy әઇdues | $\begin{aligned} & \text { ıəqunn } \\ & \text { Łəy } \end{aligned}$ | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9L ：əfeQ LGZOO／IJ／VW／OON ：on uodəy |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәı！！nbәл s！łиәшә6еиеш бии̣о！！uou бu！̣о－ио səృеэ！pu！ләqu＊ |  |  | рәı！̣nbәд s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |


| ə6еuew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV |  pəunsəлd <br> －spıen6use｜f solsəəqse рәןеәэиоэ u！ełuos Kew | леәбบગ！！мя ןอગ！ૌЭӘ｜ヨ | Z00 | V／N | 8／LEL | əృ૦łS | V／N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | ӘృコゝиОつ <br>  | $\begin{gathered} \text { sumnןoэ } \\ \text { я speәч́ng } \end{gathered}$ |  |  | L／LEL | əృ૦łS | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 乙 | 0 | 乙 | $z^{\mathrm{m}} \downarrow$ | рəృэəృəр－иоN | uயn｜os 아 ןəued | $\forall / N$ | عt99l／dS S $\forall$ | 9／LEL | əృ૦łS | $\forall / N$ |
|  |  | $\varepsilon$ |  | QN | $\downarrow$ | 0 | 乙 | z ${ }^{\text {W }} 09$ | рəృэəృəр－uоN | $\begin{gathered} \text { Ioop } 8 \\ \text { sןem uo!!!!ued } \end{gathered}$ | $\forall / N$ | $\begin{gathered} \text { Et99l/dS } \\ s \forall \end{gathered}$ | G／LEL | ƏృОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66ејun <br> 8 pəsodxヨ | yıOMəd！d |  |  | マ／レヒレ | ƏృОłS | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | $z^{\text {m }} 0 \varepsilon$ | рәұગəəəp－uoN <br> －｜Ки！̣＾Кə」Б <br> ұчБ！！ 8 әұәјиоว | ل1001 | $\forall / N$ | $\begin{gathered} \text { Lヵ99l/dS } \\ s \forall \end{gathered}$ | ย／LEレ | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq \％dəlseld | S\｜PM |  |  | て／レヒレ | ƏıOłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әฉә๗๐๐๐ <br> 8 dəlseld | 6u！！！əつ |  |  | レレとレ | ƏృОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | poom | dured of sjoued |  |  | てL／0عレ | mooylisod | $\forall / N$ |
| ə6еuew | MO7 | $\downarrow$ | † | $\downarrow$ | $\downarrow$ | 0 | 乙 | HO L |  | $\begin{gathered} \text { ләјеәч } \\ \text { ןəлә ЧБ!н } \end{gathered}$ | してO | $\forall / \mathrm{N}$ | レレ／OEレ | mooylisod | $\forall / \mathrm{N}$ |
| uo！̣จV | K！uold． uо！̣ヲ | ssəวગ૪ | əı0כS | ədK ${ }_{\perp}$ solsəqS $\forall$ | ¡еә」」 әэセцй | mer | $\begin{aligned} & \text { əd } K_{\perp} \\ & \text { podd } \end{aligned}$ | WOO ィueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ing | $\begin{aligned} & \text { Łəy } \\ & \text { ołoud } \end{aligned}$ | よəy әઇdues | əəqunN fəy | mooy | ＇ON mooy |
| GL0Z／L0／9レ：ə゙e］ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәц！！nbәл s！ұиәшәбеиещ Би！̣оң！uou бu！̣об－ио sәןеэ！pu！ләqu＊ |  | рәц！！nbəд s！ uо！̣эe ұецł səృеэ！̣и！рәу |  |  |  |




|  |  |  |  |  |  |  |  |  | pə66eןun <br> 8 pəsodxヨ | s،rSY |  |  | とL／カモレ | Keg 6u！peo7 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| ə6euew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | IIV | ә！！！op！ooィว pounserd <br> －spien6use｜f solfeqse рәןеәэиоэ u！̣еұиoэ Kew | леәбчэџ！мм ןอО！џəәઇヨ | 乙00 | $\forall / N$ | てレ／カモレ | Keg 6u！peo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { loədsu! } \\ \text { ol ssəכэe } \\ \text { ou - पচ!ч oo। } \end{gathered}$ | （s．0op Keq бu！peop әлоqе） <br>  |  |  | レレ／も¢レ | Keg 6u！peo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | јuәsə』d sןе！ıәұеш solsəqse ou－uגəpow | 6uisou diels |  |  | Oレ／カ®レ | Keg 6u！peo7 | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | pıeoq delseld | $\begin{gathered} \text { ıoор } \\ \text { әлоqе pıeog } \end{gathered}$ |  |  | 6／ヤЄレ | Keg 6u！peo7 | $\forall / \mathrm{N}$ |
| əбеuеw | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | z ${ }^{\text {W OZし }}$ | ə！！૦sイメบつ <br> －6u！̣eos <br>  | $\varepsilon \times$ əd！̣－əıseM | ๕てO | $\begin{gathered} \text { St99l/dS } \\ s \forall \end{gathered}$ | 8／ヵ¢ L | Keg 6u！peo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | IEłəW | sən｜」 |  |  | L／ヤモレ | Keg 6u！peoר | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әңәл๐иоว <br> 8 ปəlseld | sumnoo 8 speәчуing |  |  | 9／も¢レ | Keg 6u！peo7 | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | z ${ }^{\text {W }}$ 乙レ | рəłગəłəિ－uON <br> －pu！̣əq ŋəədsu！ <br> 아 SSəつગセ <br> ou－ІКи！̣ィ Кәлб <br> ұцБ！！ 8 роом | ı00｜pesiey | $\forall / N$ | $\begin{gathered} \text { Lt99l/dS } \\ s \forall \end{gathered}$ | G／ヵ¢ L | Keg 6u！peo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рә66еןun 8 pəsodxヨ | yı0Məd！d |  |  | ャ／七¢レ | Keg 6u！peo7 | $\forall / N$ |
| uo！̣จ＊ | K！uoudd uo！̣כ | ssəวงヤ | əı0כS |  | †еə」1 әэецй | meg | әdK」 <br> pold | WOn дueno | uo！̣d！̣əsəด | ұиәиodmoう 6u！p！！ng | $\begin{aligned} & \text { Łəy } \\ & \text { ołoपd } \end{aligned}$ | よəy әાdues |  fəy | mooy | －ON mooy |
| GLOZ／L0／9レ：əıP］ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LON ‘meybu！ |  |  |  |  |  |  |  |  | рәд！！nbәл s！ұиәшәбеиеш 6u！̣ои！！uou bu！̣oб－uo sәןеэ！pu！лəqu＊ |  |  | рәı！̣nbəд s！ uо！̣эе ұецł səəеэ！pu！pəy |  |  |  |




|  |  | $\varepsilon$ |  | QN | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | IIV | рәృэəəəр－uоN <br> －бu！！ 6 бе <br> ₹ Би！̣ррею <br> un！u！unje <br>  <br> әреш әи！чэеш | YıOMəd！d | $\forall / \mathrm{N}$ | 0G99l／dS | ヤ／てカレ | Kqqo7 8 mooy də！！og | V／N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әృəృน๐ว | 100｜」 |  |  | と／てヤレ | Kqq07 8 سooy ગə！！૦ | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | IIV | рəృગəłəp－uoN <br> －Keıds дәло 8 หว！ฺด | $s \\| \mathrm{P} M$ | $\forall / \mathrm{N}$ | $\begin{gathered} 6 t 99 \mathrm{l} / \mathrm{dS} \\ \mathrm{~S} \forall \end{gathered}$ | て／てヤレ | Kqqo7 8 سooy də！！g | $\forall / N$ |
|  |  | $\varepsilon$ |  | QN | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | z ${ }^{\text {W }} 09$ | рәృэəəəр－иоN <br> －бu！̣eos Keıds | 6u！！！つ | $\forall / N$ | 6t99l／dS | レ／てヤレ | Kqqo7 8 mooy дə！！૦ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | рәб6еןun 8 pəsodxə <br> －уломәd！d poom | 6uixog |  |  | G／レヤレ | IləMulels | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әдq！ן ןеләu！ әреш әи！чэеพ | yıomed！d |  |  | マ／レヤレ | IIOM．IPIS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృəృน๐ว | 1001 |  |  | と／レヤレ | ॥əмц！еłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | YOụq \％delseld | S\｜PM |  |  | てノレヤレ | IIPMıİIS | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əృəఎ૦૦૦ <br>  | 6u！！əつ |  |  | レレヤレ | IIəMulelS | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 0 | 0 | $\downarrow$ | u 8 | рәృəәృә－иоN | əseJulełs <br> of 6u！pu！ys | $\forall / N$ | 8t99l／dS | 9／0ヤレ | （łuәшәseg <br> 와）॥әми！етS | $\forall / N$ |
| ə6euew | MO7 | $\varepsilon$ | 乙 | $\downarrow$ | 0 | 0 | $\downarrow$ | W OV |  | 6uisou ג！els | 900 | $\begin{gathered} t \text { Z99l/dS } \\ s \forall \end{gathered}$ | G／Oヤレ | （¡uәшәseg <br> оł）॥əмแ！elts | $\forall / \mathrm{N}$ |
| uo！̣ov | Kiluold u‼ヤヲ | ssəวงヤ | əı0כS |  | јеә」」 әэセцй | mer | $\partial \mathrm{dK} \perp$ <br> pold | WOO дueno | uo！̣d！ıəsəด | ¡uәuodmoう 6u！p！！ng | $\begin{gathered} \text { foy } \\ \text { oloud } \end{gathered}$ | Ғəप әोdues | $\begin{aligned} & \text { ıəqunn } \\ & \text { Łəy } \end{aligned}$ | mooy | ＇ON mooy |
| GL0Z／L0／9レ：əృeด |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| dH9 LכN＇meyठu！ |  |  |  |  |  |  |  |  | рәц！пbәл s！ұиәшә6еиеш Би！̣оң！uou бu！̣об－ио səృеэ！pu！лəqu＊ |  |  | pəı！̣nbəд s！ ио！̣эе ұецł sәృеэ！ри！рәу |  |  |  |


|  |  |  |  |  |  |  |  |  | IEtow | 6u！̣フņ |  |  | ヤレ／てヤレ | Kqqo7 8 mooy dશ！！૦ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | IEtow | sən｜」 |  |  | とレ／てヤレ | $\begin{gathered} \text { Kqq07 } 8 \\ \text { mooy də!!og } \end{gathered}$ | $\forall / N$ |
| әбеuew | MO7 | $\downarrow$ | † | $\downarrow$ | $\downarrow$ | 0 | 乙 | HO V |  pəunsə』d －słəyse6 <br> 8 ədo」 solsəəse рәןеәэиоэ u！̣еұuos Kew | $\begin{gathered} \text { лә!!oq } \\ \text { ұuepunpəy } \end{gathered}$ | LZO | V／N | てい／てヤレ | Kqqo7 8 mooy də！！og | $\forall / N$ |
|  |  | $\varepsilon$ |  | QN | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | IIV | рәృəəృәр－иоN | ıOO｜Y Ơ s！uqə | $\forall / N$ | عG99l／dS | レレ／てヤレ | Kqqo 78 سooy də！！og | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | ұuәsə』d sן！！əə！еш solsəqse ON | леәбчэ！！мя <br>  |  |  | Oレ／でレ | $\begin{gathered} \text { Kqqo7 ৪ } \\ \text { mooy лə!!og } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | ON | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | IIV |  <br> －6ulpeos Kends | әбрә ןəлә цচ！！uo s！ıqəด | $\forall / \mathrm{N}$ | $\begin{gathered} 6 t 99 \mathrm{l} / \mathrm{dS} \\ \mathrm{~s} \forall \end{gathered}$ | 6／てヤレ | кqqo 78 mooy də！！og | $\forall / N$ |
|  |  | $\varepsilon$ |  | QN | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | IIV | рәృכәəəр－uоN <br> －бu！̣6ถеา | yıoməd！d | $\forall / \mathrm{N}$ | ZG991／dS | 8／てヤレ | Kqqo7 8 سooy də！！Og | $\forall / N$ |
| əлошəy | 46！${ }^{\text {H }}$ | $\varepsilon$ | てレ | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | IIV | ә！！๐sイıчว ә！！souv ә！！！ంр！ฺ૦๐ | ॥ем of S！ıqəด | 9 O0 | LG99l／dS | L／てヤレ | $\begin{gathered} \text { Kqqo7 } 8 \\ \text { mooy دə!!og } \end{gathered}$ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | loədsu！ of ssəכวe on | Słonp 100｜」 |  |  | 9／てヤレ | Kqqo7 8 سooy də！！og | $\forall / N$ |
|  |  | $\varepsilon$ |  | ON | $\varepsilon$ | $\varepsilon$ | $\varepsilon$ | IIV | рəŋэəəəр－uоN <br> －Keıds <br> дәло／əґəдวиоэ <br> 8 dəfseld | реәчяing | $\forall / \mathrm{N}$ | $\underset{s}{6 t 99 \mathrm{l} / \mathrm{dS}}$ | G／てヤレ | Kqqo 8 سooy də！！૦g | $\forall / \mathrm{N}$ |
| uo！̣ov | Kiluold <br> uo！！วヲ | ssəวงヤ | əı0̇S | $\begin{gathered} ə d K_{\perp} \\ \text { solsəqs } \forall \end{gathered}$ | $\begin{aligned} & \text { łeəл」 } \\ & \text { әэeرuns } \end{aligned}$ | meg | $\partial d K \perp$ <br> pold | WOO дueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ng | $\begin{gathered} \text { fəy } \\ \text { otoud } \end{gathered}$ | fəy әઇdues | ə ${ }^{\text {qumnN }}$ fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
|  |  | て／LO／ | ：ə1e |  | ／IJ／ | OON | ：ON | みodəy |  |  |  |  |  |  |  |
|  | ON＇u | 6u！\＃ON | Moy | Gu＊＇ع | บəつ $\downarrow$ | U0才 | ue K | eıq！ 7 |  | s！łuәшә6eueu ！uou 6u！̣об－иo อ！！pu！」əqu＊ |  |  | рәц！！nb <br> е łецł sə | $\begin{aligned} & \text { эı s! } \\ & \text { eэ!pu! pəy } \end{aligned}$ |  |






|  |  |  |  |  |  |  |  |  | Yว！＾g | $s \\| P M$ |  |  | Z／ZGレ | pıeoqdnう э！ฝŋəəコヨ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әұәли๐๐ <br> 8 dəlseld | 6u！！əə |  |  | L／ZSレ | preoqdnう ว！ฝ๖əઇコ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әдq！ן ןеләи！ әреш әи！чэеш ч！！м рәбБеןun 8 pəsodxヨ | yıoməd！d |  |  | カ／レGレ | Кqqоך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృəળนОつ | 100｜」 |  |  | E／LSL | Kqqo7 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  |  | S\｜PM |  |  | Z／LSレ | кqqоך | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృə๐นоว | 6u！！əつ |  |  | L／LGレ | Kqqoך | $\forall / N$ |
|  |  | $\varepsilon$ |  | QN | 乙 | 0 | 乙 | $z^{\text {W }}$ 乙 | рәృəәృəр－uоN | soop of paeog | $\forall / \mathrm{N}$ | $\begin{gathered} \text { GG99l/dS } \\ \text { S } \forall \end{gathered}$ | G／0G L | pıeoqdnつ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | əqеכ！｜dde $\ddagger 0 \mathrm{~N}$ | YıOMəd！d |  |  | ヤ／OGレ | paeoqdno | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əృəృบ๐ว | 100｜」1 |  |  | ع／OGレ | pıeoqdno | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | Yว！¢ด | S\｜eM |  |  | Z／OG | pıeoqdno | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృə๐น๐ว | 6u！！！つ |  |  | L／OG | pıeoqdno | $\forall / \mathrm{N}$ |
|  |  | $\varepsilon$ |  | QN | 乙 | 0 | 乙 | z ${ }^{\text {W }}$ ヤレ | рәృəəృəр－uоN | 6u！！！əつ of spıeoq ןəЛə цઠ！！ | V／N | GS99l／dS | G／6ヤレ | อıOłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun » pəsodxヨ | YıOMəd！d |  |  | ヤ／6ヤレ | ƏıOłS | $\forall / \mathrm{N}$ |
| uo！̣ヤ＊ | Kluoud uо！̣จ | ssəวэ૪ | ƏıOכS | $\begin{gathered} \text { ədK} \not \perp \\ \text { solseqs } \forall \end{gathered}$ | ¡セә」1 әэセนก́s | mer | әdK」 pold | WOn Aueno | uo！̣d！usə | ұuәuodmoう 6u！p！！ng | 冴 OłOUd | Ғəy әઇdues | ıəqunN fəy | mooy |  |
| GL0Z／L0／9レ：əృȩ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  би！̣оч！uou бu！̣о6－ио səןฺэ！pu！」əqu＊ |  |  | pəı！̣nbəд s！ uо！̣フe ұецł səəеэ！！pu！pəy |  |  |  |


|  |  |  |  |  |  |  |  |  | Y习！ג¢ | S\｜PM |  |  | て／ヤGレ | mooy дə！！og ॥ews | $\forall / N$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әృә๐ルОつ <br>  | రu！！！əつ |  |  | レ／ちらレ | mooy兀ə｜！૦g ॥ews | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  | 乙X səd！̣ ənl」 |  |  | G／EGレ | ıор！גоכ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | uo！̣e｜nsu！meot 8 әлq！y ןeıəu！u әреш әи！чэеш Ч！！М рәб6еןun 8 pəsodxヨ | yı0Məd！d |  |  | マ／EGレ | 10p！100 | V／N |
|  |  |  |  |  |  |  |  |  | әృəゝน๐ว | 100｜」10 |  |  | £／દ૬レ | ıор！10才 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yว！ıq＞גəıseld | S\｜eM |  |  | Z／EGレ | ıор！גоЭ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәл๐иоэ <br> 8 dəlseld | 6u！！！əつ |  |  | L／EGレ | 10p！100 | $\forall / \mathrm{N}$ |
| ә6euew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | HO V | ə！！！op！ooィว pəunsəコd <br> －spaen6ysey solsəqse рәןеәЈиоэ u！̣е | деәбчэฺ！мм <br>  | ZOO | $\forall / N$ | G／ZGレ | pıeoqdno ว！џっəコヨ | V／N |
|  |  |  |  |  |  |  |  |  | әдq！ן ןеләu！ әреш әи！чэеш Чџ！м рәб6еןun 8 pəsodxヨ | yıOMəd！d |  |  | ヤ／ZGレ | preoqdno ว！！ŋəəコヨ | V／N |
|  |  |  |  |  |  |  |  |  | əృəゝ价 | 100｜」 |  |  | E／ZGレ | preoqdno ว！џวəコヨ | $\forall / N$ |
| uo！̣จ | Kluoudd <br> uo！̣アV | ssəวગヤ | əı0ЈS | ədK ${ }_{\perp}$ solfsəqs $\forall$ | ¡еә」 әวセృйS | meg | әdK」 pold | WOn fueno | uo！̣d！usə | ұuәиodmoう 6u！p！！ing | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy əઇயues | ıəqunn fəy | mooy |  |
|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  | рәц！！nbәд s！ұиәшәбеиеш 6u！̣ои！！uou bu！̣oб－uo səןฺэ！pu！」əqu＊ |  |  | рәı！̣nbəд s！ uо！̣эе ұецł səəฺэ！pu！рәу |  |  |  |




|  |  |  |  |  |  |  |  |  | Yગ！̣q \％ıəıseld | S\｜eM |  |  | Z／8G1 | Кqq07 | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | ıəłseld | 6u！！！əつ |  |  | L／8G | KqqO가 | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pu！̣əq łəədsu！ <br> 아 SSəつગอ <br> ou－dəlfeld | ১əS！${ }^{\text {I }}$ |  |  | 8／LGレ | uo！̣e｜nכı！ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!̣əq łכədsu! } \\ \text { oł ssəכэe } \\ \text { ou - лəəseld } \end{gathered}$ | ॥EM uo！t！ |  |  | L／LGレ | uo！̣e｜nכı！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ןセıV | 6u！̣○ロ |  |  | 9／LGレ | uo！̣ejnoı！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | $\begin{gathered} \text { pu!̣əq łoədsu! } \\ \text { of ssəכગe } \\ \text { ou - лəəseld } \end{gathered}$ | реәчя｜ng |  |  | G／LGL | uo！̣e｜nכı！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun <br> 8 pəsodxヨ | yıOMəd！d |  |  | ヤ／LGレ | uo！̣e｜nכı！ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  | әұәฎ๐иоэ <br> 8 роом | 100｜」 |  |  | E／LGレ | uo！̣e｜noı！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Yoụq 8 dəlseld | S\｜eM |  |  | Z／LGL | uo！ıe！nox！ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృәл๐иоว <br> 8 dəlseld | రu！！！əつ |  |  | L／LSV | uo！te｜nכı！ | V／N |
| ə6еuew | MO7 | $\downarrow$ | 9 | $\varepsilon$ | $\downarrow$ | 0 | 乙 | LX |  | деәбчэฺ！мм <br>  | Z00 | $\forall / \mathrm{N}$ | 6／9G1 | 2101S | $\forall / N$ |
| uo！̣จV | Kululud uo！̣७ | ssəวગヤ | əı03S | $ə \mathrm{~d} /{ }_{\perp}$ solfsəqs $\forall$ | †еə」」 əวセนns | meg | $\partial \mathrm{d} K_{\perp}$ pold | WOn fueno | uo！̣d！usə | ұиәuodmoう бu！p！！ng | fəy ołOपd | fəy əાdues | ıəqunN təy | mooy |  |

[^2]


|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ | Yı0Məd！d |  |  | ヤ／カ91 | $\begin{gathered} \text { әJOIS } \\ \text { yoog əлey } \end{gathered}$ | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | әృəゝน๐ว | 1001 |  |  | ع／ヵ91 | $\begin{gathered} \text { ӘıolS } \\ \text { yoog əıey } \end{gathered}$ | V／N |
|  |  |  |  |  |  |  |  |  | Yગ！uq \％Jəlseld | S\｜PM |  |  | て／ヤ91 | $\begin{gathered} \text { ӘJolS } \\ \text { yoog әлey } \end{gathered}$ | $\forall / N$ |
|  |  |  |  |  |  |  |  |  |  <br> 8 ปətseld | Øu！！！əつ |  |  | レ／カ9レ | $\begin{gathered} \text { әлols } \\ \text { yoog ərey } \end{gathered}$ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ | Yı0Məd！d |  |  | も／と9－ | ƏıOłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృə๐๐つ | 100｜」 |  |  | ع／๕9 | əıols | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Younq 8 delseld | $\mathrm{S} \\| \mathrm{e} M$ |  |  | 乙／®9 | ə入૦łS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәлэиоэ <br> 8 Jətseld | 6u！！！əつ |  |  | L／E9 | ƏృОłS | V／N |
|  |  |  |  |  |  |  |  |  | pә66eןun 8 pəsodxヨ | 6u！！！əコ pəpuədsns ə＾Oqе үјомәd！d |  |  | 6／Z9－ | әО！サО | V／N |
|  |  |  |  |  |  |  |  |  | əృəゝ价 | Gu！！！əつ pəpuədsns ə＾оqе 6u！！！əう |  |  | 8／Z9－ | əЈ！サО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq \supsetneqכədsu! Of Ssəכวe ou - dəlseld``` | ১əS！${ }^{\text {I }}$ |  |  | L／Z9－ | әЈ！НО | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | ```pu!पəq łכədsu! Oᄀ SSəつつe ou - \OłSEld``` | £х би！̣реן uwnjoう |  |  | 9／Z9－ | əэ！サО | $\forall / \mathrm{N}$ |
| U0！！จ＊ | Klunold uo！̣ヲ | ssəวગ૪ | ƏıОכS | әdK」 solsəəqs $\forall$ | †еә」」 әэецй | meg | әdK」 pold | WOn ィueno | uo！̣d！ıつsə］ | ¡uәuodmoう 6u！p！！ng | fəy OłOपd | よəy əાdues | ıəqunn fəy | mooy | $\begin{gathered} \text { ON } \\ \text { mooy } \end{gathered}$ |
| GL0Z／L0／9レ：əıP？ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | рәц！！nbəл s！ұиәшәбеиеш Би！̣оң！uou бu！̣об－ио səŋеэ！pu！лəqu＊ |  | рәı！̣nbəд s！ ио！̣эе ұецъ sәəеэ！̣и！рәу |  |  |  |


| ә6euew | MO7 | $\downarrow$ | † | $\downarrow$ | $\downarrow$ | 0 | 乙 | IIV | ә！！ヤOsイıчつ pəunsərd －słəyse6 <br> 8 ədoય solsəqse рәןеәэиоэ u！ełuos Kew | sıəıеән | レレO | $\forall / \mathrm{N}$ | 9／99 | ƏıOłS | $\forall / \mathrm{N}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | ןセıヲW | 6u！̣эnด |  |  | G／991 | ƏıOtS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | əдq！！edəu！̣u әреш әи！чэеш | Yı0Məd！d |  |  | 7／991 | Ə101S | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әұәлиоэ <br> 8 poom | 100｜」 |  |  | ع／99 | Ə101S | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | Youpq＞ıəıseld | S\｜eM |  |  | Z／991 | ƏıОłS | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | 」əłseld | 6u！！！əつ |  |  | L／99 | 2101S | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | delseld | әృes əp！su！s！̣qəด |  |  | G／G91 | łne＾ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pә66eјun 8 pəsodxヨ | yı0Məd！d |  |  | も／G91 | łne＾ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әъәлиоэ <br> 8 роом | 100｜」 |  |  | E／G91 | łne＾ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | รə！！ગ！ฺயләว 8 หग！． | S\｜PM |  |  | Z／G91 | łne＾ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | әృəృน๐ว | 6u！！！əつ |  |  | L／G9 | łne＾ | $\forall / \mathrm{N}$ |
| uo！̣จV | K！uoudd uo！̣ヲ | Ssəวગヤ | ƏıООS | $\begin{gathered} \text { ədK」 } \\ \text { solsəqs } \forall \end{gathered}$ | †еә」」 әэセцй | meg | $\partial d K_{\perp}$ <br> pold | WOO дueno | uo！̣d！ısə | ¡uәuodmoう Bu！p！！ng | $\begin{aligned} & \text { fəy } \\ & \text { ołoud } \end{aligned}$ | fəy әןdues | əəqunN fəy | mooy | $\begin{gathered} \text { on } \\ \text { mooy } \end{gathered}$ |
| GLOZ／L0／9レ：əfȩ |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | бии̣о！！uou бu！̣о－ио səృеэ！pu！лəqu＊ |  | pəı！̣nbəд s！ uо！̣эе ұецł sәəеэ！pu！pəy |  |  |  |



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|  |  |  |  |  |  |  |  |  | рә66ъןun 8 pəsodxə ‘‘ełəN |  | 6u！̣วn¢ |  |  | OL／OLL | ｜セиヌəıхヨ | V／N |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  | poom |  | әэиедұиә Кq ॥ем 아 ןəued |  |  | 6／021 | 1セuスəıхヨ | V／N |
|  |  |  |  |  |  |  |  |  | IPłəW |  | 6u！̣peן uunjoう |  |  | 8／021 | ｜セиぇəıхヨ | V／N |
|  |  |  |  |  |  |  |  |  | poom |  | Kdoues <br>  |  |  | L／OLI | ｜セuぇəıхヨ | V／N |
|  |  |  |  |  |  |  |  |  | ｜ełom 8 O！̣seld |  | səd！̣u！eıp <br>  |  |  | 9／021 | ｜セиぇəıхヨ | V／N |
|  |  |  |  |  |  |  |  |  | ¡əədsu！ <br> Ol Ssəoગe ON |  | Earefoor fely |  |  | G／0＜l | ｜еиヌəıхヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | pə66eןun 8 pəsodxヨ |  | yı0Məd！d |  |  | 7／02L | ｜セиぇəıхヨ | $\forall / \mathrm{N}$ |
|  |  |  |  |  |  |  |  |  | sə！！ 8 әәəコンиоว |  | 100ㅢ |  |  | E／0＜L | ｜セиぇəıхヨ | $\forall / \mathrm{N}$ |
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## SECTION

## SURVEY EVALUATION

## SURVEY REPORT SHEETS WITH PHOTOGRAPHS

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |  |
| :--- | :--- | :--- | :---: |
| Location | Roof Space/Lift Machine Room |  |  |
| Component | Lift motor - may contain concealed asbestos rope \& gasket |  |  |
| BDA Reference | $01 / 5$ |  |  |
| Sample No. | N/A | Analysis |  | Presumed Chrysotile | N |
| :--- |

Photo Ref: 001


Material Assessment Algorithm

| Amount | Product <br> Type | Damage | Surface Treatment | Asbestos <br> Type | Score | Access | Total | Action Priority | Action Required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| x1 | 2 | 0 | 1 | 1 | 4 | 1 | 4 | Low | Manage |
| Discussion |  |  |  |  |  |  |  |  |  |

Lift motors of the type present in the Roof Space/Lift Machine Room may contain concealed asbestos rope seals and gaskets usually Chrysotile (white asbestos).

The rope or gaskets are unlikely to give rise to significant airborne fibre release unless they are disturbed during maintenance works and may be left in situ.

The Control of Asbestos Regs 2012 do not require the use of a licensed asbestos removal contractor for the removal of asbestos rope and gaskets of this type. However they should be removed in a controlled manner and disposed of as asbestos waste. A written method of work should be employed by those undertaking the removal works.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |
| :---: | :---: |
| Location | Roof Space/Lift Machine Room, Electric Cupboard, Lift Motor Rooms, Electrics Room, Stores, Communications Room, Copier Room \& Cupboard, Electrical Cupboards, Post Room, Loading Bay, Boiler Room \& Lobby, Small Boiler Room, Plant Room \& Main Basement |
| Component | Electrical switchgear - may contain concealed asbestos flashguards |
| BDA Reference | 01/6, 11/5, 22/7, 42/5, 54/5, 66/5, 80/5, 92/5, 103/6, 104/5, 109/9, 127/5, 129/5, 130/9, 131/8, 134/12, 142/15, 146/6, 152/5, 154/10, 156/9, 160/6, 161/5, 166/7 \& 168/8 |
| Sample No. | N/A Analysis Presumed Crocidolite |

Photo Ref: 002

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |
| :--- | :--- |
| Location | Stairwells \& Store |
| Component | Textured coating |
| BDA Reference | $02 / 2,02 / 10,35 / 2,35 / 8,62 / 2,85 / 2,86 / 2 \& 106 / 2$ |
| Sample No. | SP/16621 |

## Photo Ref: 003


16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, |  |  |  |
| :--- | :--- | :--- | :---: | :---: |
| Location | NG1 6HP |  |  |  |
| Component | Call Centre |  |  |  |
| BDA Reference | 10/8 |  |  |  |
| Sample No. may contain concealed asbestos rope seals |  |  |  |  |
|  | N/A | Analysis |  |  | Presumed Chrysotile |  |
| :--- | :--- | :--- |

Photo Ref: 004


Material Assessment Algorithm

| Amount | Product <br> Type | Damage | Surface <br> Treatment | Asbestos <br> Type | Score | Access | Total | Action <br> Priority | Action <br> Required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| All | 2 | 0 | 1 | 1 | 4 | 1 | 4 | Low | Manage |

Discussion
Skylights of the type present in the Call Centre may contain concealed asbestos rope seals usually Chrysotile (white asbestos).

The rope seals are unlikely to give rise to significant airborne fibre release unless they are disturbed during maintenance works and may be left in situ.

The Control of Asbestos Regs 2012 do not require the use of a licensed asbestos removal contractor for the removal of asbestos rope seals of this type. However they should be removed in a controlled manner and disposed of as asbestos waste. A written method of work should be employed by those undertaking the removal works.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |
| :--- | :--- |
| Location | Stairwells |
| Component | Gasket |
| BDA Reference | $17 / 9,46 / 5,69 / 5,98 / 5,111 / 5 \& 159 / 5$ |
| Sample No. | SP/16632 |

Photo Ref: 005

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |
| :--- | :--- |
| Location | Stairwell/Lift Lobbys, Stairwells \& Stairwell (to Basement) |
| Component | Stair nosing |
| BDA Reference | $25 / 6,59 / 6,82 / 5,101 / 5,136 / 5 \& 140 / 5$ |
| Sample No. | SP/16624 |

Photo Ref: 006


Material Assessment Algorithm

| Amount | Product <br> Type | Damage | Surface <br> Treatment | Asbestos <br> Type | Score | Access | Total | Action <br> Priority | Action <br> Required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 100 m | 1 | 0 | 0 | 1 | 2 | 3 | 6 | Low | Manage |
| Discussion |  |  |  |  |  |  |  |  |  |

The stair nosing in the locations listed above contain Chrysotile (white asbestos).
The stair nosing is unlikely to give rise to significant airborne fibre release due to the hard resin matrix the asbestos fibres are bound into so may be left in situ, however drilling or abrading of the stair nosing i.e. sanding with power tools etc, may lead to airborne fibre release and should be avoided.

If future repair/refurbishment works will lead to the disturbance/removal of the stair nosing the Control of Asbestos Regs 2012 do not require the use of a licensed asbestos removal contractor for the removal of asbestos products of this type, but the works should be carried out in a controlled manner and any tiles removed should be disposed of as asbestos waste.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, |  |
| :--- | :--- | :--- |
| NG1 6HP |  |  |$|$| Location | Female WC |
| :--- | :--- |
| Component | Upstand to suspended ceiling |
| BDA Reference | $133 / 13$ |
| Sample No. | SP/16625 |

Photo Ref: 007

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |  |
| :--- | :--- | :--- | :---: |
| Location | Lobby \& WC |  |  |
| Component | Light grey floor tile |  |  |
| BDA Reference | $36 / 3 \& 37 / 3$ |  |  |
| Sample No. | SP/16626 | Analysis |  | Chrysotile | S |
| :--- |

Photo Ref: 008

16.0 SURVEY REPORT SHEET

\left.| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, |  |  |
| :--- | :--- | :--- | :---: |
| NG1 6HP |  |  |  |$\right]$.

Photo Ref: 009


| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |
| :--- | :--- |
| Location | Stores, Electrics Room, Parent and Baby Room |
| Component | Vinyl floor |
| BDA Reference | $39 / 3,42 / 3,43 / 3,48 / 3,63 / 3,66 / 3,70 / 3 \& 92 / 3$ |
| Sample No. | SP/16629 |

Photo Ref: 010


### 16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |
| :---: | :---: | :---: |
| Location | Library's, Archives, Study Area, Office, Stores \& Main Basement |  |
| Component | Heaters - may contain concealed asbestos rope \& gaskets |  |
| BDA Reference | 41/6, 47/5, 49/8, 67/8, 71/5, 72/8, 146/5, 161/6 \& 166/6 |  |
| Sample No. | N/A Analysis | Presumed Chrysotile |

Photo Ref: 011


### 16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, |  |
| :--- | :--- | :---: |
| NG1 6HP |  |  |

Photo Ref: 012

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |
| :--- | :--- | :--- |
| Location | Library, Study Area, Parent \& Baby Room |  |
| Component | Debris above suspended ceiling |  |
| BDA Reference | $41 / 18,49 / 10 \& 63 / 11$ |  |
| Sample No. | SP/16625 | Analysis |

Photo Ref: 013


Asbestos insulating board debris is present above the suspended ceilings in the locations listed above. The debris contains Amosite (brown asbestos) and Chrysotile (white asbestos).

The debris is friable and likely to give rise to airborne fibre release if disturbed by personnel accessing the ceiling void. Access to the ceiling voids listed should be prohibited until the area has been decontaminated.

The removal works should be carried out by a licensed asbestos removal contractor under fully controlled asbestos removal conditions in accordance with the Control of Asbestos Regs 2012.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Parent \& Baby Room and Store |  |  |
| Component | Upstand to suspended ceiling |  |  |
| BDA Reference | 63/10 \& 70/7 |  |  |
| Sample No. | SP/16625 | Analysis | Amosite \& Chrysotile |

Photo Ref: 014


Material Assessment Algorithm

| Amount | Product <br> Type | Damage | Surface <br> Treatment | Asbestos <br> Type | Score | Access | Total | Action <br> Priority | Action <br> Required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $2 \mathrm{~m}^{2}$ | 2 | 3 | 2 | 2 | 9 | 1 | 9 | Low | Encapsulate <br> or <br> overboard |

## Discussion

Asbestos insulating boards (A.I.B.) that contain Amosite (brown asbestos) and Chrysotile (white asbestos) have been used to form the upstands to the suspended ceilings in the Parent \& Baby Room, and Store.

The boards are unpainted and liable to give rise to significant airborne fibre release. The boards should be encapsulated with a Class ' 0 ' fire retardant sealant or overboarded. The encapsulation works should be carried out under controlled conditions by a licensed asbestos removal contractor at the earliest opportunity. Access to the areas listed above should be prohibited until the areas have been decontaminated.

If future repair/refurbishment works will lead to the boards being disturbed they should be removed by a licensed asbestos removal contractor under fully controlled asbestos removal conditions in accordance with the Control of Asbestos Regs 2012 prior to the works commencing.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |
| :--- | :--- | :--- |
| Location | Library's \& Office |  |
| Component | Upstands to suspended ceiling |  |
| BDA Reference | $67 / 13,71 / 10 \& 72 / 11$ |  |
| Sample No. | SP/16625 | Analysis |

Photo Ref: 015


### 16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |
| :--- | :--- | :--- |
| Location | Disabled WC, Library Comms Room \& Comms Room |  |
| Component | Textured coating |  |
| BDA Reference | $78 / 7,78 / 8,79 / 6,79 / 8,79 / 9 \& 80 / 2$ |  |
| Sample No. | SP/16637 | Analysis |

Photo Ref: 016


### 16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Comms Room |  |  |
| Component | Textured coating to ceiling |  |  |
| BDA Reference | 80/1 |  |  |
| Sample No. | SP/16637 | Analysis | Chrysotile |

Photo Ref: 017

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Public Library |  |  |
| Component | Column |  |  |
| BDA Reference | 108/15 |  |  |
| Sample No. | SP/16440 | Analysis | Amosite \& Chrysotile |

Photo Ref: 018

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Lift Lobby |  |  |
| Component | Ceiling above suspended ceiling |  |  |
| BDA Reference | 109/11 |  |  |
| Sample No. | BN/15357 | Analysis | Amosite \& Chrysotile |

Photo Ref: 019


Discussion
Asbestos insulating boards (A.I.B.) that contain Amosite (brown asbestos) and Chrysotile (white asbestos) have been used to form the ceiling above the suspended ceiling in the Lift Lobby.

The boards are unpainted and damaged. They are liable to give rise to significant airborne fibre release if disturbed. The boards should be encapsulated with a Class ' 0 ' fire retardant sealant or overboarded. The encapsulation works should be carried out under controlled conditions by a licensed asbestos removal contractor at the earliest opportunity.

If future repair/refurbishment works will lead to the boards being disturbed they should be removed by a licensed asbestos removal contractor under fully controlled asbestos removal conditions in accordance with the Control of Asbestos Regs 2012 prior to the works commencing.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |
| :--- | :--- | :--- |
| Location | Post Room |  |
| Component | Large stand alone heater - may contain concealed asbestos <br> rope \& gaskets |  |
| BDA Reference | 130/10 |  |
| Sample No. | N/A | Analysis | Presumed Chrysotile | N |
| :--- |

Photo Ref: 020


Material Assessment Algorithm

| Amount | Product <br> Type | Damage | Surface <br> Treatment | Asbestos <br> Type | Score | Access | Total | Action <br> Priority | Action <br> Required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| x1 | 2 | 0 | 1 | 1 | 4 | 1 | 4 | Low | Manage |
| Discussion |  |  |  |  |  |  |  |  |  |

Large stand alone heaters of the type present in the Post Room may contain concealed asbestos rope seals and gaskets usually Chrysotile (white asbestos).

The rope or gaskets are unlikely to give rise to significant airborne fibre release unless they are disturbed during maintenance works and may be left in situ.

The Control of Asbestos Regs 2012 do not require the use of a licensed asbestos removal contractor for the removal of asbestos rope and gaskets of this type. However they should be removed in a controlled manner and disposed of as asbestos waste. A written method of work should be employed by those undertaking the removal works.

### 16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |  |
| :--- | :--- | :--- | :---: |
| Location | Library \& Post Room |  |  |
| Component |  <br> gaskets |  |  |
| BDA Reference | 65/7 \& 130/11 |  |  |
| Sample No. | N/A | Analysis |  | Presumed Chrysotile | N |
| :--- |

## Photo Ref: 021


16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |
| :--- | :--- | :--- |
| Location | Female WC |  |
| Component | Grey floor tile \& adhesive |  |
| BDA Reference | $133 / 3$ |  |
| Sample No. | SP/16644 | Analysis | Chrysotile | S. |
| :--- |

Photo Ref: 022

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Loading Bay |  |  |
| Component | Textured coating |  |  |
| BDA Reference | 134/2 \& 134/8 |  |  |
| Sample No. | SP/16645 | Analysis | Chrysotile |

Photo Ref: 023


### 16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Stairwell |  |  |
| Component | Green vinyl |  |  |
| BDA Reference | 136/3 |  |  |
| Sample No. | SP/16646 | Analysis | Chrysotile |

Photo Ref: 024

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |  |
| :--- | :--- | :--- | :---: |
| Location | Stairwell (to Basement) |  |  |
| Component | Beige floor tile \& adhesive |  |  |
| BDA Reference | $140 / 3$ |  |  |
| Sample No. | SP/16647 | Analysis |  | Chrysotile | S. |
| :--- |

## Photo Ref: 025


16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Boiler Room \& Lobby |  |  |
| Component | Debris to walls |  |  |
| BDA Reference | 142/7 |  |  |
| Sample No. | SP/16651 | Analysis | Crocidolite, Amosite \& Chrysotile |

Photo Ref: 026


Asbestos insulation debris is present to the wall in the Boiler Room and Lobby. The debris contains Crocidolite (blue asbestos), Amosite (brown asbestos) and Chrysotile (white asbestos). It should be presumed that the debris is present to all the walls in the area listed above.

The debris is friable and likely to give rise to airborne fibre release if disturbed by personnel accessing the Boiler Room and Lobby. Access to the room should be prohibited until the area has been decontaminated.

The removal works should be carried out by a licensed asbestos removal contractor under fully controlled asbestos removal conditions in accordance with the Control of Asbestos Regs 2012.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |  |
| :--- | :--- | :--- | :---: |
| Location | Boiler Room \& Lobby |  |  |
| Component |  <br> gaskets |  |  |
| BDA Reference | $142 / 12$ |  |  |
| Sample No. | N/A | Analysis |  | Presumed Chrysotile | N |
| :--- |

Photo Ref: 027

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Gas Cupboard, Store \& Small Boiler Room |  |  |
| Component | Gasket to pipes |  |  |
| BDA Reference | 143/5, 148/5 \& 154/7 |  |  |
| Sample No. | SP/16654 | Analysis | Chrysotile |

Photo Ref: 028

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |  |
| :--- | :--- | :--- | :---: |
| Location | Stores |  |  |
| Component | Bitumen wrap to cable |  |  |
| BDA Reference | $146 / 7 \& 147 / 5$ |  |  |
| Sample No. | N/A | Analysis |  | Presumed Chrysotile | N |
| :--- |

Photo Ref: 029


It should be presumed that the cable wraps of the type present in the Stores contain Chrysotile (White asbestos). A sample could not be collected for analysis at the time of the survey as the equipment was still live, but it is known that products of this type may contain asbestos.

The Control Of Asbestos Regs 2012 do not require the use of a licensed asbestos removal contractor for the removal of asbestos products of this type, however they should be removed in a controlled manner and disposed of as asbestos waste.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Small Boiler Room |  |  |
| Component | Flue |  |  |
| BDA Reference | 154/5 |  |  |
| Sample No. | BN/15251 | Analysis | Chrysotile |

Photo Ref: 030


Material Assessment Algorithm

| Amount | Product <br> Type | Damage | Surface <br> Treatment | Asbestos <br> Type | Score | Access | Total | Action <br> Priority | Action <br> Required |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 off | 1 | 0 | 0 | 1 | 2 | 3 | 6 | Low | Manage |
| Discussion |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |

The asbestos cement flue within the Small Boiler Room contains Chrysotile (white asbestos). The flue is in good condition and unlikely to be disturbed so may be left in situ.

Asbestos cement flues are unlikely to give rise to airborne fibre release as the Chrysotile fibres are bound into a hard cement matrix, however subjecting the flue to mechanical damage i.e. drilling, sanding or breaking is liable to give rise to significant airborne fibre release and should be avoided.

If future repair/maintenance works will lead to the disturbance of the flue the Control of Asbestos Regs 2012 do not require the use of a licensed asbestos removal contractor for the removal of asbestos cement products of this type, however the flue should be removed in a controlled manner and disposed of as asbestos waste.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |
| :--- | :--- | :--- |
| Location | Main Basement |  |
| Component | Ceiling tile |  |
| BDA Reference | $161 / 1$ |  |
| Sample No. | BN/15253 | Analysis | Amosite \& Chrysotile $\quad$|  |
| :--- | :--- | :--- | :--- |

Photo Ref: 031

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, |  |
| :--- | :--- | :--- |
| NG1 6HP |  |  |$|$| Location | Main Basement |
| :--- | :--- |
| Component | Debris on top of ducting |
| BDA Reference | $161 / 10$ |
| Sample No. | BN/15253 |

Photo Ref: 032


Asbestos insulating board debris is present above the void in the Main Basement. The debris contains Amosite (brown asbestos) and Chrysotile (white asbestos).

The debris is friable and likely to give rise to airborne fibre release if disturbed by personnel accessing the void. Access to the void should be prohibited until the area has been decontaminated.

The removal works should be carried out by a licensed asbestos removal contractor under fully controlled asbestos removal conditions in accordance with the Control of Asbestos Regs 2012.
16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, <br> NG1 6HP |  |
| :--- | :--- | :--- |
| Location | Main Basement |  |
| Component | Packer between pipe \& ceiling |  |
| BDA Reference | $161 / 11$ |  |
| Sample No. | BN/15253 | Analysis |

Photo Ref: 033

16.0 SURVEY REPORT SHEET

| Site | Central Library and Contact Centre 3, Angel Row, Nottingham, NG1 6HP |  |  |
| :---: | :---: | :---: | :---: |
| Location | Library |  |  |
| Component | Debris above suspended ceiling |  |  |
| BDA Reference | 67/17 |  |  |
| Sample No. | As SP/16625 | Analysis | Amosite \& Chrysotile |

Photo Ref: 034


Debris is present above the suspended ceiling in the Library. The debris contains Amosite (brown asbestos) and Chrysotile (white asbestos).

The debris is friable and likely to give rise to airborne fibre release if disturbed. Access above the suspended ceiling should be prohibited until the area has been decontaminated.

The removal works should be carried out by a licensed asbestos removal contractor under fully controlled asbestos removal conditions in accordance with the Control of Asbestos Regs 2012.

## SECTION

## APPENDIX 1

## BULK SAMPLE ANALYSIS CERTIFICATE








Kıołeıoqe|
 All analysis carried out as described in BDA Surveying in-house methods, which is in accordance results due to having no involvement in sampling locations, methods of sampling or sample size BDA Surveying Ltd bear no responsibility for samples taken by a third party, or interpretation of

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| SP/16624 | әЈuәds पs!uer

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NG2 3NG Nottingham Station Street
Nottingham

Nottingham City Council
Loxley House
$\frac{\text { Client }}{\text { Nottingham City Council }} \quad \frac{\text { Contact Name }}{\text { Mr Andy Fletcher }}$
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NG1 6HP
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Central Library and
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Sample Address
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 Identification Comments
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Station Street
Nottingham
Nottingham City Council
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NG2 3NG Nottingham
Nottinghamshire Station Street
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Loxley House
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NG2 3NG Nottinghamshire Station Street
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