

## Guidance

# G2106

# Sprayed concrete lining exclusion zone management

| Issue no.: | A1 | Issue date:  | June 2016 |
|------------|----|--------------|-----------|
|            |    | Review date: | June 2019 |

## Contents

|    |                                           |   |
|----|-------------------------------------------|---|
| 1  | Purpose .....                             | 2 |
| 2  | Scope .....                               | 2 |
| 3  | Guidance .....                            | 2 |
| 4  | Responsibilities .....                    | 2 |
| 5  | Supporting information .....              | 2 |
| 6  | Person accountable for the document ..... | 3 |
| 7  | Abbreviations .....                       | 3 |
| 8  | Document history .....                    | 3 |
| 9  | References .....                          | 3 |
| 10 | Attachments .....                         | 3 |

Printed copies of this document are uncontrolled.

Page 1 of 3

## 1 Purpose

- 1.1 This guidance provides good practice solutions for the use of a Sprayed Concrete Lining (SCL) exclusion zone management.
- 1.2 This guidance was produced for the construction of Crossrail.

## 2 Scope

- 2.1 This guidance may be used for projects that require SCL exclusion zone management.

## 3 Guidance

- 3.1 The unedited Crossrail good practice guide begins on the next page.

## 4 Responsibilities

The Deep Tube Tunnels Engineer is responsible for this guidance.

## 5 Supporting information

- 5.1.1 This guidance is one of a set that provide overall guidance on the life cycle requirements for Civil Engineering assets.
- 5.1.2 The complete set is as follows.

| Document no. | Title or URL                                                           |
|--------------|------------------------------------------------------------------------|
| G050         | Civil Engineering – Common Requirements                                |
| G0051        | Civil Engineering – Bridge Structures                                  |
| G0052        | Civil Engineering – Gravity Drainage Systems                           |
| G0053        | Civil Engineering – Building and Station Structures                    |
| G0054A       | Civil Engineering – Earth Structures                                   |
| G0054B       | Earth Structures – Guide for Slope Stability Analysis                  |
| G055         | Civil Engineering – Deep Tube Tunnels and Shafts                       |
| G0056        | Civil Engineering – Pumping Systems                                    |
| G0057        | Civil Engineering – Miscellaneous Assets                               |
| G0058        | Civil Engineering – Technical Advice Notes                             |
| G1299        | Guidance on Civil Engineering Asset Strategic and Tactical Risk Models |
| G1417        | Grouting to control seepage in tunnels and structures                  |
| G2105        | Construction Railway Operations                                        |
| G2106        | Sprayed concrete lining exclusion zone management                      |
| G2107        | Pressure Systems                                                       |
| G2108        | Occupational Exposure to Respirable Dust                               |

Printed copies of this document are uncontrolled.

Page 2 of 3

### 5.1.3 The above give guidance and explanation in support of the following standards:

| Document no. | Title or URL                                                                                       |
|--------------|----------------------------------------------------------------------------------------------------|
| S1050        | Civil Engineering – Common Requirements                                                            |
| S1051        | Civil Engineering – Bridge Structures                                                              |
| S1052        | Civil Engineering – Gravity Drainage Systems                                                       |
| S1053        | Civil Engineering – Building and Station Structures                                                |
| S1054        | Civil Engineering – Earth Structures                                                               |
| S1055        | Civil Engineering – Deep Tube Tunnels and Shafts                                                   |
| S1056        | Civil Engineering – Pumping Systems                                                                |
| S1057        | Civil Engineering – Miscellaneous Assets                                                           |
| S1060        | Civil Engineering – Bridges and Structures inspection standard                                     |
| S1061        | Civil Engineering – Bridges and Structures Assessment                                              |
| S1062        | Temporary Works                                                                                    |
| S1063        | Civil Engineering - Cutting, grinding, drilling, fixing to and supporting from existing structures |
| S1064        | Civil Engineering - Waterproofing                                                                  |
| S1800        | Cable Runs                                                                                         |
| S1801        | Competence requirements for undertaking Civil Engineering Safety Critical Work                     |

## 6 Person accountable for the document

| Name         | Job title                 |
|--------------|---------------------------|
| Keith Bowers | Principal Tunnel Engineer |

## 7 Abbreviations

| Abbreviation | Definition              | Source |
|--------------|-------------------------|--------|
| SCL          | Sprayed Concrete Lining | a      |

## 8 Document history

| Issue no. | Date      | Changes                                                                | Author         |
|-----------|-----------|------------------------------------------------------------------------|----------------|
| A1        | June 2016 | Incorporation of Crossrail best practice guide into LU Standards suite | Mohammed Gajia |

## 9 References

| Document no. | Title or URL                                       |
|--------------|----------------------------------------------------|
|              | Best Practice Guide: SCL Exclusion Zone Management |

## 10 Attachments

# Index

## Part A – General

Purpose and Scope Page 4

Definitions, Roles & Responsibilities Page 5

## Part B – Exclusion Zones and Restricted Areas

Requirements Page 8

Control & Release Page 9

Illustration of Exclusion Zones and Restricted Areas Page 11

## Part C – Additional Information

Communication, Secondary Lining and Further Measures Page 13/14

Glossary of Terms Page 14

External Standards Page 14

Phonetic Alphabet Page 14

## Part A – General