



# Environmental Monitoring Data

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| Project:          | Sydney Metro City & Southwest– TSE Works |
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## Document Approval

| Rev. | Date       | Prepared by  | Reviewed by | Approved by | Remarks         |
|------|------------|--------------|-------------|-------------|-----------------|
| 01   | 12/09/2019 | N. Alexander | R. Muir     | R. Muir     | For publication |

## Project Summary

The Sydney Metro City and Southwest is the second portion of the new standalone rail network known as the Sydney Metro which is Australia’s largest public transport infrastructure project and a priority rail project for the NSW Government. John Holland CPB Ghella (JHCPBG) have been contracted by Transport for New South Wales to design and construct the Tunnel and Stations Excavation Works Project (TSE Works) of the Sydney Metro City & Southwest between Chatswood and Sydenham. Figure 1 provides an overview of the Project.



Figure 1: Project Overview

## Environmental Protection Licence and Reporting Requirements

John Holland Pty Ltd obtained the Environment Protection Licence (EPL No. 20971) from the NSW Environment Protection Authority for the Tunnel and Station Excavation (TSE) Works on behalf of the John Holland CPB Ghella (JHCPBG) Joint Venture. The licence is for construction works relating to Rail Systems Activities and Concrete Works as defined under Schedule 1 of the *Protection of the Environment Operations Act, 1997* (POEO Act).

The licence describes monitoring and reporting requirements for the TSE Works, and specifically provides discharge criteria for water treatment plant and sediment basin water quality. The following report details environmental monitoring undertaken during this reporting month conducted in accordance with the EPL.

The EPL can be found by following the link below to the EPA’s website:

<https://apps.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=165252&SYSUID=1&LICID=20971>

### **Discharge Water Monitoring**

Testing and discharge was undertaken during this reporting period. Table 1 contains the discharge monitoring results.

### **Noise and Vibration Monitoring**

Noise and vibration monitoring was undertaken during this reporting period. Table 2 contains the vibration monitoring results, and Table 3 contains the noise monitoring results.

### **Real-Time Noise and Vibration Monitoring**

Real-time noise and vibration monitors were operating at Barangaroo, Crows Nest, Martin Place, Pitt Street, and Victoria Cross during the July reporting period. Table 4.1 and 4.2 contains summarised real-time noise monitoring results and real-time vibration data is displayed in Table 5.

Table 1: Discharge Water Monitoring Data.

| Monitoring Point | Identifier <sup>1</sup> | Date Sampled | Event Based Monitoring (Y/N) | Parameter/ Criteria/ Measured Value |                     |                             | Comments                |
|------------------|-------------------------|--------------|------------------------------|-------------------------------------|---------------------|-----------------------------|-------------------------|
|                  |                         |              |                              | pH (6.5 - 8.5)                      | Turbidity (<35 NTU) | Oil & Grease (None Visible) |                         |
| 2                | CD_02                   | 27/08/2019   | Y                            | 7.4                                 | 1.2                 | Nil                         | Discharge permit issued |
| 2                | CN_02                   | 30/07/2019   | Y                            | 7.8                                 | <1                  | Nil                         | Discharge permit issued |
| 3                | VC_03                   | 09/08/2019   | Y                            | 7.3                                 | 4.3                 | Nil                         | Discharge permit issued |
| 2                | BN_02                   | 24/07/2019   | Y                            | 6.8                                 | <1                  | Nil                         | Discharge permit issued |
| 2                | BL_02                   | 09/08/2019   | Y                            | 7.4                                 | 3.8                 | Nil                         | Discharge permit issued |
| 3                | PS_03                   | 30/07/2019   | Y                            | 7.9                                 | <1                  | Nil                         | Discharge permit issued |
| 1                | MDS_01                  | 22/08/2019   | Y                            | 6.8                                 | 11                  | Nil                         | Discharge permit issued |

<sup>1</sup> As per discharge point identified in Sydney Metro City and Southwest Temporary Basin and Water Treatment Discharge Point Schedule

There is no discharge from the Waterloo site as the plant was decommissioned prior to the start of this monitoring period.

Table 2: Vibration Monitoring Data.

| Monitoring location           | Monitoring Date | Attended or Continuous Monitoring | Event Based Monitoring (Y/N) | Measured VDV (m/s <sup>1.75</sup> ) | VDV Target (m/s <sup>1.75</sup> ) | VDV Compliant | Measured PPV (mm/s) | PPV Target (mm/s) | PPV Compliant |
|-------------------------------|-----------------|-----------------------------------|------------------------------|-------------------------------------|-----------------------------------|---------------|---------------------|-------------------|---------------|
| 7-11 Nelson Street, Chatswood | 12/08/2019      | Attended                          | Y                            | N/A                                 | N/A                               | N/A           | 0.66                | 7.5               | Y             |
| 05 Berkeley Court, Chatswood  | 13/08/2019      | Attended                          | Y                            | N/A                                 | N/A                               | N/A           | 0.07                | 7.5               | Y             |
| Mowbray House, Chatswood      | 15/08/2019      | Attended                          | Y                            | N/A                                 | N/A                               | N/A           | 2.24                | 7.5               | Y             |
| 50 Martin Place, Sydney       | 19/08/2019      | Attended                          | Y                            | N/A                                 | N/A                               | N/A           | 0.10                | 7.5               | Y             |
| 50 Martin Place, Sydney       | 29/08/2019      | Attended                          | Y                            | N/A                                 | N/A                               | N/A           | 0.10                | 7.5               | Y             |

Table 3: Noise Monitoring Data

| Monitoring Location (Noise-Catchment Area, Street, Suburb) | Monitoring Date | Attended or Continuous Monitoring | Event Based Monitoring (Y/N) | Parameter                 | Measured Value dB(A) | Goals / Targets dB(A) | Comments   |
|--|-----------------|-----------------------------------|------------------------------|---------------------------|----------------------|-----------------------|--|
| CN_03, 10-12 Clarke St, Crows Nest                         | 07/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 63.0                 | 71                    | TSE works compliant.   |
| CDS_03, 7-11 Nelson St, Chatswood                          | 12/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 51.1                 | 60                    | TSE works compliant.   |
| CDS_03, 05 Berkeley Court, Chatswood                       | 13/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 47.7                 | 55                    | TSE works compliant.   |
| WS_02, 104 Raglan St, Waterloo                             | 13/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 57.7                 | 52                    | TSE works compliant.<br>Traffic was dominant noise source.   |
| CDS_03, 7-11 Nelson St, Chatswood                          | 14/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 50.8                 | 60                    | TSE works compliant.   |
| MP_04, 50 Martin Place, Sydney                             | 19/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 62.0                 | 65                    | TSE works compliant.   |
| WS_04, 62-72 Botany Rd, Waterloo                           | 21/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 71.9                 | 64                    | TSE works compliant.<br>Traffic was dominant noise source.   |
| OSR_1263, 02 Whiting St, Artarmon                          | 22/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 64.5                 | 93                    | TSE works compliant.   |
| OSR_1161, 96 Reserve St, Artarmon                          | 22/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 71.5                 | 101                   | TSE works compliant.   |
| OSR_1270, 04 Whiting St, Artarmon                          | 22/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 64.1                 | 93                    | TSE works compliant.   |
| AS_01_558, 19 Barton Rd, Artarmon                          | 22/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 60.1                 | 80                    | TSE works compliant.   |
| WS_02, 104 Raglan St, Waterloo                             | 24/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 67.6                 | 44                    | TSE works compliant.<br>Traffic/Birds dominant noise source. |
| WS_04, 62-72 Botany Rd, Waterloo                           | 24/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 70.1                 | 44                    | TSE works compliant.<br>Traffic was dominant noise source.   |

| Monitoring Location (Noise-Catchment Area, Street, Suburb) | Monitoring Date | Attended or Continuous Monitoring | Event Based Monitoring (Y/N) | Parameter                 | Measured Value dB(A) | Goals / Targets dB(A) | Comments             |
|--|-----------------|-----------------------------------|------------------------------|---------------------------|----------------------|-----------------------|----------------------|
| MDS_02, 356 Edgeware Rd, Newtown                           | 28/08/2019      | Attended                          | Y                            | LA <sub>eq</sub> (15-min) | 64.5                 | 63                    | TSE works inaudible. |

Table 4-1 Summary Table of Real Time Noise Data Compared Against EPL Condition E1.1.

| Do Real-Time Noise Monitoring Results Comply with EPL Condition E1.1? |                 |       |                        |       |                 |       |                            |       |                        |       |                 |       |                  |       |                   |       |                                  |       |       |
|---|-----------------|-------|------------------------|-------|-----------------|-------|----------------------------|-------|------------------------|-------|-----------------|-------|------------------|-------|-------------------|-------|----------------------------------|-------|-------|
| Date  | 545 Pacific Hwy |       | 10 to 12 Clarke Street |       | 65 Berry Street |       | Castlereagh Boutique Hotel |       | Edinburgh Castle Hotel |       | 50 Martin Place |       | 25A Hickson Road |       | 243 Miller Street |       | 60 Castlereagh Street (Basement) |       |       |
|   | Noise Limit     | Upper | Lower                  | Upper | Lower           | Upper | Lower                      | Upper | Lower                  | Upper | Lower           | Upper | Lower            | Upper | Lower             | Upper | Lower                            | Upper | Lower |
| 01/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 02/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 03/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 04/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 05/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 06/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 07/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 08/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 09/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 10/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 11/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 12/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | No                         | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 13/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 14/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 15/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 16/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 17/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 18/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 19/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 20/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 21/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 22/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 23/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 24/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 25/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 26/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 27/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 28/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 29/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 30/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |
| 31/08/2019  | Yes             | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes                        | Yes   | Yes                    | Yes   | Yes             | Yes   | Yes              | Yes   | Yes               | Yes   | Yes                              | Yes   | Yes   |

Table 4-2: Real-Time Noise Monitoring Data

| Report for Condition E1.1 on 01/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 18       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 13       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| Report for Condition E1.1 on 02/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 19       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 26       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |

| Report for Condition E1.1 on 03/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 6        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| Report for Condition E1.1 on 04/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |

| Report for Condition E1.1 on 05/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 11       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 9        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 15       | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |
| Report for Condition E1.1 on 06/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 11       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |

| Report for Condition E1.1 on 07/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 3        | Yes                     |
|   | Lower      | 39                           | 21       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 5        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 5        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |
| Report for Condition E1.1 on 08/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 5        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 5        | Yes                     |
|   | Lower      | 39                           | 9        | Yes                     |

| Report for Condition E1.1 on 09/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 5        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 29       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| Report for Condition E1.1 on 10/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 3        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 6        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |

| Report for Condition E1.1 on 11/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |
| Report for Condition E1.1 on 12/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 14       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 28       | No                      |
|   | Lower      | 39                           | 28       | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 22       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 7        | Yes                     |
|   | Lower      | 39                           | 9        | Yes                     |

| Report for Condition E1.1 on 13/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 19       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 23       | Yes                     |
|   | Lower      | 39                           | 24       | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 23       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |
| Report for Condition E1.1 on 14/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 11       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 6        | Yes                     |
|   | Lower      | 39                           | 31       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |

| Report for Condition E1.1 on 15/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 3        | Yes                     |
|   | Lower      | 39                           | 19       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 16       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| Report for Condition E1.1 on 16/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 26       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 11       | Yes                     |
|   | Lower      | 39                           | 23       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |

| Report for Condition E1.1 on 17/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 13       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 3        | Yes                     |
|   | Lower      | 39                           | 6        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| Report for Condition E1.1 on 18/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 3        | Yes                     |
|   | Lower      | 39                           | 4        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |

| Report for Condition E1.1 on 19/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 14       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 12       | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 6        | Yes                     |
|   | Lower      | 39                           | 14       | Yes                     |
| Report for Condition E1.1 on 20/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 17       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 5        | Yes                     |
|   | Lower      | 39                           | 34       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 10       | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 6        | Yes                     |
|   | Lower      | 39                           | 12       | Yes                     |

| Report for Condition E1.1 on 21/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 9        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 33       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |
| Report for Condition E1.1 on 22/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 24       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 19       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 3        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |

| Report for Condition E1.1 on 23/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 12       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 32       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 13       | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 2        | Yes                     |
| Report for Condition E1.1 on 24/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 7        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |

**Report for Condition E1.1 on 25/08/2019**

| Location                     | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|------------------------------|------------|------------------------------|----------|-------------------------|
|                              |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street       | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| 65 Berry St                  | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel   | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel       | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| 50 Martin Place              | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road             | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement) | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 1        | Yes                     |

**Report for Condition E1.1 on 26/08/2019**

| Location                     | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|------------------------------|------------|------------------------------|----------|-------------------------|
|                              |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street       | Upper      | 26                           | 5        | Yes                     |
|                              | Lower      | 39                           | 26       | Yes                     |
| 65 Berry St                  | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel   | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel       | Upper      | 26                           | 1        | Yes                     |
|                              | Lower      | 39                           | 8        | Yes                     |
| 50 Martin Place              | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road             | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement) | Upper      | 26                           | 0        | Yes                     |
|                              | Lower      | 39                           | 7        | Yes                     |

| Report for Condition E1.1 on 27/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 4        | Yes                     |
|   | Lower      | 39                           | 21       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 18       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |
| Report for Condition E1.1 on 28/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 12       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 1        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 1        | Yes                     |
|   | Lower      | 39                           | 12       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 5        | Yes                     |
|   | Lower      | 39                           | 22       | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 4        | Yes                     |
|   | Lower      | 39                           | 8        | Yes                     |

| Report for Condition E1.1 on 29/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 18       | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 6        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 4        | Yes                     |
| Report for Condition E1.1 on 30/08/2019 |            |                              |          |                         |
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 5        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 2        | Yes                     |
|   | Lower      | 39                           | 11       | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 3        | Yes                     |
|   | Lower      | 39                           | 6        | Yes                     |

| Report for Condition E1.1 on 31/08/2019 |            |                              |          |                         |
|---|------------|------------------------------|----------|-------------------------|
| Location                                | Noise Goal | 15-min periods in exceedance |          | Has condition been met? |
|   |            | Permitted                    | Exceeded |                         |
| 10 to 12 Clarke Street                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 5        | Yes                     |
| 65 Berry St                             | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Castlereagh Boutique Hotel              | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| Edinburgh Castle Hotel                  | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 9        | Yes                     |
| 50 Martin Place                         | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 25A Hickson Road                        | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 0        | Yes                     |
| 60 Castlereagh St (Basement)            | Upper      | 26                           | 0        | Yes                     |
|   | Lower      | 39                           | 3        | Yes                     |

**Real Time Noise Analysis Results Comments:**

**Castlereagh Boutique Hotel (169 Castlereagh St, Sydney)**

A noise alarm was triggered at Pitt St site - Castlereagh Boutique Hotel on 12 August 2019. The alarms were caused by JHCPBG contractor attending the site to service the noise monitoring equipment not JHCPBG construction works.

Table 5: Real-Time Vibration Monitoring Data (Maximum recorded value per day)

| Day             | 22 Clarke Street, Crows Nest | 10 to 12 Clarke Street, Crows Nest | 65 Berry Street, North Sydney | 25A Hickson Road, Millers Point | 50 Martin Place, Sydney | 60 Castlereagh Street (Basement), Sydney | Castlereagh Boutique Hotel | 211-217 Castlereagh Street Sydney |
|-----------------|------------------------------|------------------------------------|-------------------------------|---------------------------------|-------------------------|--|----------------------------|-----------------------------------|
| Criteria (mm/s) | 25                           | 25                                 | 25                            | 25                              | 7.5                     | 25                                       | 7.5                        | 25                                |
| 01/08/2019      | 1.15                         | 3.73                               | 1.15                          | 0.16                            | 0.39                    | 0.62                                     | 3.11                       | 0.21                              |
| 02/08/2019      | 0.49                         | 0.69                               | 0.71                          | 0.18                            | 0.31                    | 0.51                                     | 5.05                       | 0.78                              |
| 03/08/2019      | 1.04                         | 0.31                               | 0.44                          | 0.13                            | 1.12                    | 0.69                                     | 3.16                       | 0.23                              |
| 04/08/2019      | 0.58                         | 0.22                               | 0.16                          | 0.1                             | 0.27                    | 1.08                                     | 0.12                       | 0.1                               |
| 05/08/2019      | 0.84                         | 0.49                               | 0.27                          | 0.5                             | 1.89                    | 0.69                                     | 2.5                        | 0.53                              |
| 06/08/2019      | 0.78                         | 0.33                               | 0.36                          | 0.16                            | 0.4                     | 0.26                                     | 2.39                       | 0.39                              |
| 07/08/2019      | 0.74                         | 0.56                               | 0.37                          | 0.13                            | 0.31                    | 0.26                                     | 1.8                        | 0.2                               |
| 08/08/2019      | 0.61                         | 0.49                               | 0.43                          | 0.15                            | 0.35                    | 0.31                                     | 2.54                       | 0.34                              |
| 09/08/2019      | 0.74                         | 0.33                               | 0.96                          | 0.1                             | 0.34                    | 0.36                                     | 2.48                       | 0.3                               |
| 10/08/2019      | 0.53                         | 0.31                               | 0.24                          | 0.2                             | 11.31                   | 0.57                                     | 3.4                        | 0.52                              |
| 11/08/2019      | 0.69                         | 0.15                               | 0.16                          | 0.16                            | 0.29                    | 0.33                                     | 0.22                       | 0.09                              |
| 12/08/2019      | 0.8                          | 0.35                               | 0.27                          | 0.15                            | 0.29                    | 0.28                                     | 4.58                       | 0.45                              |
| 13/08/2019      | 0.78                         | 3.97                               | 0.27                          | 0.1                             | 0.46                    | 1.03                                     | 1.44                       | 0.4                               |
| 14/08/2019      | 1.65                         | 0.26                               | 0.35                          | 0.16                            | 0.54                    | 0.9                                      | 4.61                       | 0.57                              |
| 15/08/2019      | 1.74                         | 0.77                               | 0.53                          | 0.11                            | 0.69                    | 0.36                                     | 1.13                       | 1.4                               |
| 16/08/2019      | 1.02                         | 1.02                               | 0.27                          | 0.28                            | 0.35                    | 0.59                                     | 28.01                      | 0.36                              |
| 17/08/2019      | 0.65                         | 0.41                               | 0.21                          | 0.24                            | 0.59                    | 0.39                                     | 1.57                       | 0.39                              |
| 18/08/2019      | 0.41                         | 0.24                               | 0.19                          | 0.15                            | 0.27                    | 0.25                                     | 0.21                       | 0.06                              |
| 19/08/2019      | 0.61                         | 1.09                               | 0.35                          | 0.2                             | 0.7                     | 0.36                                     | 1.04                       | 0.43                              |
| 20/08/2019      | 0.71                         | 0.92                               | 0.55                          | 0.2                             | 0.84                    | 0.23                                     | 2.27                       | 0.31                              |
| 21/08/2019      | 0.71                         | 0.43                               | 0.41                          | 0.37                            | 1.17                    | 0.46                                     | 2.74                       | 0.47                              |
| 22/08/2019      | 0.82                         | 0.31                               | 2.81                          | 0.18                            | 1.33                    | 0.44                                     | 3.71                       | 0.51                              |
| 23/08/2019      | 0.72                         | 3.94                               | 1.56                          | 0.08                            | 0.34                    | 0.39                                     | 3.72                       | 0.39                              |
| 24/08/2019      | 0.72                         | 0.54                               | 0.37                          | 0.6                             | 18.75                   | 0.31                                     | 0.96                       | 0.28                              |
| 25/08/2019      | 0.47                         | 0.22                               | 0.38                          | 0.2                             | 0.27                    | 0.33                                     | 0.19                       | 0.06                              |
| 26/08/2019      | 0.92                         | 0.77                               | 0.88                          | 0.13                            | 0.49                    | 0.36                                     | 3.22                       | 0.67                              |
| 27/08/2019      | 0.95                         | 0.72                               | 0.62                          | 0.18                            | 1.09                    | 0.44                                     | 1.44                       | 0.4                               |
| 28/08/2019      | 1.18                         | 0.82                               | 0.6                           | 0.13                            | 0.48                    | 0.26                                     | 2.03                       | 0.49                              |
| 29/08/2019      | 0.46                         | 0.26                               | 0.31                          | 0.37                            | 1.17                    | 0.57                                     | 2.26                       | 1.41                              |
| 30/08/2019      | 0.45                         | 0.24                               | 0.77                          | 0.2                             | 0.73                    | 0.36                                     | 0.94                       | 1.17                              |
| 31/08/2019      | 0.52                         | 1.02                               | 0.6                           | 0.47                            | 2.83                    | 0.39                                     | 2.05                       | 0.28                              |

**Real-Time Vibration Results Comments:**

**50 Martin Place, Sydney**

10 AUGUST 2019

On 10 August 2019 vibration criteria was exceeded once at 50 Martin Place. Macquarie Bank personnel confirmed that they had contractors in attendance in the location of the vibration monitor and that elevated vibration levels were likely due to contractors working in close proximity to the vibration logger not JHCPBG works. This has been recorded as non-construction related event.

24 AUGUST 2019

On 24 August 2019, alerts were received from vibration monitor located at 50 Martin Place regarding vibration level exceedance. Upon investigation, it was confirmed by Macquarie Bank that cleaners were in attendance in the room where vibration monitoring equipment is located, and a cleaner had accidentally contacted the geophone. This has been recorded as non-construction related event.

**Castlereagh Boutique Hotel (169 Castlereagh St, Sydney)**

16 AUGUST 2019

The real time vibration monitor installed adjacent to Pitt St North site (Castlereagh Boutique Hotel) logged vibration level exceedance. The vibration exceedance was not attributable to TSE works but was credited to acoustic consultants that were attending to the monitor creating elevated readings.