



Environmental Monitoring Data

Project:	Sydney Metro City & Southwest– TSE Works
Document Number:	SMCSWTSE-JCG-TPW-EM-RPT-097398
Reporting Period:	March 2019
Date Published:	12 April 2019

Document Approval

Rev.	Date	Prepared by	Reviewed by	Approved by	Remarks
01	12/04/2019	D. Windnagel	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=153426&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 February 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 ¹	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	CN_02	01/03/2019	N	7.7	1.3	Nil	Crows Nest WTP
3	VC_03	01/03/2019	Y	7.2	1	Nil	Victoria Cross WTP
3	PS_03	01/03/2019	N	6.5	3.0	Nil	Pitt Street WTP
1	WL_01	01/03/2019	N	6.7	<1	Nil	Waterloo WTP
2	BN_02	01/03/2019	Y	8.2	0.35	Nil	Barangaroo WTP
1	MDS_01	01/03/2019	N	7.5	1	Nil	Contingency Tanks
1	MDS_01	04/03/2019	N	7.9	10.12	Nil	Marrickville WTP
2	MDS_02	05/03/2019	Y	7.14	15.4	Nil	Concrete Tank
2	MDS_02	05/03/2019	Y	7.05	6.7	Nil	Concrete Tank
2	MDS_02	06/03/2019	Y	7.43	10	Nil	Concrete Tank
2	CD_02	06/03/2019	Y	7.6	7.6	Nil	Chatswood WTP
2	BL_02	07/03/2019	Y	7.8	13	Nil	Bligh Street WTP
2	MDS_02	22/03/2019	N	7.2	6.70	Nil	Concrete Tank
1	MDS_01	22/03/2019	Y	7.14	4.4	Nil	Contingency Tanks

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

Table 2: Vibration Monitoring Data.

Monitoring location	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Measured VDV (m/s ^{1.75})	VDV Target (m/s ^{1.75})	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant
PS_01, 294 Pitt Street, Sydney	01/03/2019	Attended	Y	Negligible	0.4	Y	0.28	7.5	Y
PS_05, 211-217 Castlereagh Street, Sydney	01/03/2019	Attended	Y	Negligible	0.4	Y	0.09	25	Y
CDS_06, 342 Mowbray Road, Chatswood	04/03/2019	Attended	Y	0.08	0.4	Y	0.29	7.5	Y
PS_03, 169-173 Castlereagh Street, Sydney	06/03/2019	Attended	Y	Negligible	0.4	Y	0.39	7.5	Y
MP_02, 9 Castlereagh Street, Sydney	08/03/2019	Attended	Y	Negligible	0.4	Y	0.16	25	Y
MP_02, 5 Hoskings Place, Sydney	10/03/2019	Attended	Y	Negligible	0.4	Y	0.22	25	Y
MP_04, 52 Martin Place, Sydney	12/03/2019 to 21/03/2019	Continuous	Y	Negligible	0.4	Y	0.83	25	Y
PS_04, 54 Park Street, Sydney	14/03/2019	Attended	Y	Negligible	0.4	Y	0.51	7.5	Y
PS_05, 209 Castlereagh Street	21/03/2019	Attended	Y	Negligible	0.4	Y	0.27	25	Y
PS_05, 211-217 Castlereagh Street, Sydney	21/03/2019	Attended	Y	Negligible	0.4	Y	0.11	7.5	Y

Monitoring location	Monitoring Date	Attended or Continuous Monitoring	Event Based Monitoring (Y/N)	Measured VDV (m/s ^{1.75})	VDV Target (m/s ^{1.75})	VDV Compliant	Measured PPV (mm/s)	PPV Target (mm/s)	PPV Compliant
MP_04, 52 Martin Place, Sydney	29/03/2019	Attended	Y	Negligible	0.4	Y	0.22	25	Y
MP_04, 50 Martin Place, Sydney	29/03/2019	Attended	Y	Negligible	0.4	Y	0.17	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
PS_05, 211-217 Castlereagh Street, Sydney	01/03/2019	Attended	Y	LAeq 15min	50.1	60	TSE works compliant
CDS_06, 342 Mowbray Road, Chatswood	04/03/2019	Attended	Y	LAeq 15min	67.4	99	TSE works compliant
PS_01, 339 Pitt Street, Sydney	04/03/2019	Attended	Y	LAeq 15min	69	87	TSE works compliant
VC_04, 237 Miller Street, Victoria Cross	05/03/2019	Attended	Y	LAeq 15min	41.3	45	TSE works compliant
VC_04, 237 Miller Street, Victoria Cross	05/03/2019	Attended	Y	LAeq 15min	37.2	45	TSE works compliant
PS_01, 339 Pitt Street, Sydney	05/03/2019	Attended	Y	LAeq 15min	64.9	87	TSE works compliant
VC_04, 237 Miller Street, Victoria Cross	05/03/2019	Attended	Y	LAeq 15min	34.2	45	TSE works compliant
VC_04, 237 Miller Street, Victoria Cross	06/03/2019	Attended	Y	LAeq 15min	43.6	45	TSE works compliant
VC_04, 237 Miller Street, Victoria Cross	06/03/2019	Attended	Y	LAeq 15min	36.2	45	TSE works compliant
PS_03, 169-173 Castlereagh Street, Sydney	06/03/2019	Attended	Y	LAeq 15min	52.1	60	TSE works inaudible
CDS_06, 344 Mowbray Road, Chatswood	07/03/2019	Attended	Y	LAeq 15min	61.9	71	TSE works compliant
CDS_06, 344 Mowbray Road, Chatswood	07/03/2019	Attended	Y	LAeq 15min	66.5	71	TSE works compliant
PS_05, 137-139 Bathurst Street, Sydney	07/03/2019	Attended	Y	LAeq 15min	54.4	60	TSE works compliant

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
MP_02, 9 Castlereagh Street, Sydney	08/03/2019	Attended	Y	LAeq 15min	48.2	60	TSE works compliant
MP_02, 5 Hoskings Place, Sydney	10/03/2019	Attended	Y	LAeq 15min	44.5	45	TSE works compliant
BP_01, 14-28 Blues Point Road, McMahons Point	11/03/2019	Attended	Y	LAeq 15min	57.9	67	TSE works compliant
BP_01, 40 Blues Point Road, McMahons Point	11/03/2019	Attended	Y	LAeq 15min	51.4	64	TSE works compliant
BP_01, 40 Blues Point Road, McMahons Point	11/03/2019	Attended	Y	LAeq 15min	48.4	64	TSE works compliant
BP_01, 14-28 Blues Point Road, McMahons Point	11/03/2019	Attended	Y	LAeq 15min	65.4	67	TSE works compliant
MP_04, 50 Martin Place, Sydney	12/03/2019	Attended	Y	LAeq 15min	47.6	60	TSE works compliant
MP_04, 52 Martin Place, Sydney	12/03/2019	Attended	Y	LAeq 15min	56.5	45	TSE works inaudible
MP_04, 52 Martin Place, Sydney	12/03/2019	Attended	Y	LAeq 15min	56.5	60	TSE works compliant
VC_05, 237 Miller Street, Victoria Cross	13/03/2019	Attended	Y	LAeq 15min	70	75	TSE works compliant
CDS_02, 572 Pacific Highway, Chatswood	18/03/2019	Attended	Y	LAeq 15min	71.6	61	TSE works compliant, traffic dominant noise source
CDS_02, 552-554 Pacific Highway, Chatswood	18/03/2019	Attended	Y	LAeq 15min	72.9	57	TSE works compliant, traffic dominant noise source
CDS_02, 552-554 Pacific Highway, Chatswood	18/03/2019	Attended	Y	LAeq 15min	71.9	55	TSE works compliant, traffic dominant noise source
VC_05, 237 Miller Street, Victoria Cross	19/03/2019	Attended	Y	LAeq 15min	71.8	62	TSE works compliant, traffic 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
VC_05, 237 Miller Street, Victoria Cross	19/03/2019	Attended	Y	LAeq 15min	71.3	62	TSE works compliant, traffic dominant noise source
VC_05, 237 Miller Street, Victoria Cross	20/03/2019	Attended	Y	LAeq 15min	74.3	75	TSE works compliant
OSR_2499, 10-12 Clarke Street, Crows Nest	20/03/2019	Attended	Y	LAeq 15min	68.2	92	TSE works compliant
OSR_2499, 10-12 Clarke Street, Crows Nest	20/03/2019	Attended	Y	LAeq 15min	66.3	84	TSE works compliant
VC_05, 237 Miller Street, Victoria Cross	21/03/2019	Attended	Y	LAeq 15min	58.9	75	TSE works compliant
PS_05, 211-217 Castlereagh Street, Sydney	21/03/2019	Attended	Y	LAeq 15min	51.1	60	TSE works compliant
PS_05, 209 Castlereagh Street, Sydney	21/03/2019	Attended	Y	LAeq 15min	62.2	60	TSE works compliant. Non-TSE works dominant noise source
OSR_2499, 10-12 Clarke Street, Crows Nest	21/03/2019	Attended	Y	LAeq 15min	53.5	84	TSE works compliant
BN_03, 40-40A High Street, Millers Point	22/03/2019	Attended	Y	LAeq 15min	61.3	64	TSE works compliant
BN_02, 24 Munn Street, Barangaroo	23/03/2019	Attended	Y	LAeq 15min	51	51	TSE works compliant
BN_03, 40-40A High Street, Millers Point	23/03/2019	Attended	Y	LAeq 15min	57	51	TSE works compliant. Non-TSE works dominant noise source.
BN_02, 24 Munn Street, Barangaroo	23/03/2019	Attended	Y	LAeq 15min	50.7	51	TSE works compliant
BN_02, 24 Munn Street, Barangaroo	23/03/2019	Attended	Y	LAeq 15min	49.9	51	TSE works compliant
WS_02, 213 Cope Street, Waterloo	27/03/2019	Attended	Y	LAeq 15min	54.3	70	TSE works compliant

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
WS_03, 134 Wellington Street, Waterloo	27/03/2019	Attended	Y	LAeq 15min	58.6	70	TSE works compliant
WS_02, 213 Cope Street, Waterloo	27/03/2019	Attended	Y	LAeq 15min	52	44	TSE works inaudible
WS_03, 134 Wellington Street, Waterloo	27/03/2019	Attended	Y	LAeq 15min	50.5	44	TSE works compliant
WS_03, 134 Wellington Street, Waterloo	28/03/2019	Attended	Y	LAeq 15min	50.1	44	TSE works compliant
WS_02, 213 Cope Street, Waterloo	28/03/2019	Attended	Y	LAeq 15min	47.8	44	TSE works inaudible
BN_03, 44 High Street, Millers Point	29/03/2019	Attended	Y	LAeq 15min	68.7	84	TSE works compliant
BN_03, 44 High Street, Millers Point	29/03/2019	Attended	Y	LAeq 15min	54.2	84	TSE works compliant
BN_03, 44 High Street, Millers Point	29/03/2019	Attended	Y	LAeq 15min	54.8	52	TSE works compliant, traffic dominant noise source

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

Date	Location & Noise Goal																		
	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 (Level 2 Internal)		
	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	
01/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
02/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
03/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
04/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
05/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes
06/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
07/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
08/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
09/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
10/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
11/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
12/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
13/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
14/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
15/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

Date	Location & Noise Goal																	
	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 (Level 2 Internal)	
	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower	Upper	Lower
16/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
17/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
18/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
19/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
20/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
21/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No
22/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
23/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
24/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
25/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	No	No
26/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
27/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
28/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
29/03/2019	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
30/03/2019	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
31/03/2019	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 01/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	1	Yes
	Lower	39	10	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	21	Yes
	Lower	39	39	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	4	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	3	Yes
	Lower	39	17	Yes
Report for Condition E1.1 on 02/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	1	Yes
	Lower	39	3	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	15	Yes
50 Martin Place	Upper	26	18	Yes
	Lower	39	26	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	9	Yes
	Lower	39	28	Yes

Report for Condition E1.1 on 03/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	3	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	0	Yes
Report for Condition E1.1 on 04/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	2	Yes
Edinburgh Castle Hotel	Upper	26	22	Yes
	Lower	39	41	No
50 Martin Place	Upper	26	0	Yes
	Lower	39	7	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	26	Yes
	Lower	39	37	Yes

Report for Condition E1.1 on 05/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	26	Yes
	Lower	39	32	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	17	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	34	No
	Lower	39	38	Yes
Report for Condition E1.1 on 06/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	4	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	26	Yes
	Lower	39	38	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	3	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	19	Yes
	Lower	39	41	No

Report for Condition E1.1 on 07/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	8	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	19	Yes
	Lower	39	35	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	5	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	12	Yes
	Lower	39	36	Yes
Report for Condition E1.1 on 08/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	19	Yes
	Lower	39	49	No
50 Martin Place	Upper	26	0	Yes
	Lower	39	12	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	19	Yes
	Lower	39	26	Yes

Report for Condition E1.1 on 09/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	2	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	14	Yes
	Lower	39	22	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	4	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	5	Yes
	Lower	39	24	Yes
Report for Condition E1.1 on 10/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	2	Yes
	Lower	39	5	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	0	Yes

Report for Condition E1.1 on 11/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	6	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	23	Yes
	Lower	39	38	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	4	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	26	Yes
	Lower	39	45	No
Report for Condition E1.1 on 12/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	10	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	10	Yes
	Lower	39	29	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	3	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	21	Yes
	Lower	39	47	No

Report for Condition E1.1 on 13/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	4	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	0	Yes
Edinburgh Castle Hotel	Upper	26	7	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
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	13	Yes
	Lower	39	34	Yes
Report for Condition E1.1 on 14/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	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	24	Yes
	Lower	39	37	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	1	Yes
	Lower	39	2	Yes
60 Castlereagh St (Level 2)	Upper	26	8	Yes
	Lower	39	28	Yes

Report for Condition E1.1 on 15/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	26	Yes
	Lower	39	48	No
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	2	Yes
	Lower	39	2	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	16	Yes
Report for Condition E1.1 on 16/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	1	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	8	Yes
	Lower	39	16	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	1	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	2	Yes
	Lower	39	2	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	8	Yes

Report for Condition E1.1 on 17/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	2	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	6	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	0	Yes
Report for Condition E1.1 on 18/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	0	Yes
Edinburgh Castle Hotel	Upper	26	8	Yes
	Lower	39	22	Yes
50 Martin Place	Upper	26	5	Yes
	Lower	39	25	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	2	Yes
	Lower	39	3	Yes
60 Castlereagh St (Level 2)	Upper	26	19	Yes
	Lower	39	38	Yes

Report for Condition E1.1 on 19/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	3	Yes
	Lower	39	10	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	25	Yes
	Lower	39	38	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	23	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	2	Yes
	Lower	39	2	Yes
60 Castlereagh St (Level 2)	Upper	26	13	Yes
	Lower	39	32	Yes
Report for Condition E1.1 on 20/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	4	Yes
	Lower	39	22	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	19	Yes
	Lower	39	36	Yes
50 Martin Place	Upper	26	8	Yes
	Lower	39	27	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	2	Yes
	Lower	39	2	Yes
60 Castlereagh St (Level 2)	Upper	26	20	Yes
	Lower	39	42	No

Report for Condition E1.1 on 21/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	8	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	15	Yes
	Lower	39	36	Yes
50 Martin Place	Upper	26	1	Yes
	Lower	39	27	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	2	Yes
	Lower	39	2	Yes
60 Castlereagh St (Level 2)	Upper	26	23	Yes
	Lower	39	41	No
Report for Condition E1.1 on 22/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	1	Yes
Edinburgh Castle Hotel	Upper	26	25	Yes
	Lower	39	41	No
50 Martin Place	Upper	26	2	Yes
	Lower	39	23	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	3	Yes
	Lower	39	3	Yes
60 Castlereagh St (Level 2)	Upper	26	2	Yes
	Lower	39	22	Yes

Report for Condition E1.1 on 23/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	3	Yes
	Lower	39	28	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	10	Yes
	Lower	39	24	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	1	Yes
	Lower	39	2	Yes
60 Castlereagh St (Level 2)	Upper	26	2	Yes
	Lower	39	18	Yes
Report for Condition E1.1 on 24/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	1	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	1	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	2	Yes
	Lower	39	3	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	0	Yes

Report for Condition E1.1 on 25/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	32	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	19	Yes
	Lower	39	35	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	27	No
	Lower	39	48	No
Report for Condition E1.1 on 26/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	1	Yes
	Lower	39	32	Yes
65 Berry St	Upper	26	0	Yes
	Lower	39	0	Yes
Castlereagh Boutique Hotel	Upper	26	1	Yes
	Lower	39	1	Yes
Edinburgh Castle Hotel	Upper	26	12	Yes
	Lower	39	32	Yes
50 Martin Place	Upper	26	8	Yes
	Lower	39	29	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	19	Yes
	Lower	39	36	Yes

Report for Condition E1.1 on 27/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	23	Yes
	Lower	39	38	Yes
50 Martin Place	Upper	26	3	Yes
	Lower	39	26	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	3	Yes
60 Castlereagh St (Level 2)	Upper	26	13	Yes
	Lower	39	36	Yes
Report for Condition E1.1 on 28/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	10	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	6	Yes
	Lower	39	33	Yes
50 Martin Place	Upper	26	1	Yes
	Lower	39	28	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	3	Yes
60 Castlereagh St (Level 2)	Upper	26	15	Yes
	Lower	39	39	Yes

Report for Condition E1.1 on 29/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	3	Yes
	Lower	39	42	No
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	44	No
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	1	Yes
	Lower	39	3	Yes
60 Castlereagh St (Level 2)	Upper	26	3	Yes
	Lower	39	22	Yes
Report for Condition E1.1 on 30/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
10 to 12 Clarke Street	Upper	26	0	Yes
	Lower	39	10	Yes
65 Berry St	Upper	26	0	Yes
	Lower	39	0	Yes
Castlereagh Boutique Hotel	Upper	26	5	Yes
	Lower	39	5	Yes
Edinburgh Castle Hotel	Upper	26	1	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
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	18	Yes

Report for Condition E1.1 on 31/03/2019				
Location	Noise Goal	15 minute periods in exceedance		Has condition been met?
		Permitted	Exceeded	
545 Pacific Highway	Upper	26	0	Yes
	Lower	39	0	Yes
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	2	Yes
50 Martin Place	Upper	26	0	Yes
	Lower	39	0	Yes
25A Hickson Road	Upper	26	0	Yes
	Lower	39	0	Yes
243 Miller St	Upper	26	0	Yes
	Lower	39	0	Yes
60 Castlereagh St (Level 2)	Upper	26	0	Yes
	Lower	39	0	Yes

Real Time Noise Analysis Results Comments:

60 Castlereagh Street (Level 2 Internal) 05/03/2019

An alert was sent at 15:46pm advising that JHCPBG had used the allowable limit for works to occur with noise levels in excess of 55dB. As a result, high impact works were ceased onsite.

Upon review of real-time monitoring data, from 18:15pm to 21:15pm, there is an unexplained increase in noise levels being recorded. TSE works were not occurring onsite at the time of these readings. These readings are likely attributed to an internal noise source from within 60 Castlereagh Street as the monitor is located within a lecture theatre. It is likely that the room was being utilized during the evening. Therefore, it is concluded that TSE works were compliant with condition E1.1.

60 Castlereagh Street (Level 2 Internal) 06/03/2019

There were 41 periods recorded in excess of 50dB at the 60 Castlereagh Street (Level 2) noise monitor on the 6/03/2019. Data was reviewed by the site Environmental Coordinator.

Onsite works were completed at 17:00pm on this day. There is an unexplainable increase in noise levels recorded by the monitor between 18:15pm and 20:45pm. These readings are likely attributed to an internal noise source from within 60 Castlereagh Street as the monitor is located within a lecture theatre. It is likely

that the room was being utilized during the evening. Therefore, it is concluded that TSE works were compliant with condition E1.1.

Edinburgh Castle Hotel 08/03/2019

Real time noise monitor installed adjacent to Pitt St South site (Edinburgh Castle Hotel) logged a noise alarm as per E1.1. This notification triggers when there have been 39 logging periods (15 minutes each) at this site above 50dBA between the working hours of 07:00-20:00 AEDT on 8 March.

Upon investigation of operations at Pitt St South by the Construction, Environment & Community teams, the following was noted:

- the window of the room where the monitor is located was shut (note: as required)
- all respite periods specific for this site were observed
- noisy works had largely ceased on site from 3.15pm, coinciding with drop in noise levels at this time
- patronage of beer garden in Edinburgh Castle Hotel increased at approx. 4.15pm, coinciding with spike in noise levels at this time

It was concluded that an exceedance was not recorded on this occasion.

60 Castlereagh Street (Level 2 Internal) 11/03/2019

An email alert was received at 17:33pm advising that JHCPBG was approaching the allowable limit for works to occur with noise levels in excess of 55dB. Works were ceased onsite prior to 18:00pm. An alarm was not received as the additional periods in excess of 50dB fell outside of standard construction hours.

Upon review of real-time monitoring data, from 18:15pm to 20:30pm, there is an unexplained increase in noise levels being recorded. TSE works were not occurring onsite at the time of these readings. These readings are likely attributed to an internal noise source from within 60 Castlereagh Street as the monitor is located within a lecture theatre. It is likely that the room was being utilized during the evening. Therefore, it is concluded that TSE works were compliant with condition E1.1 of the project Conditions of Approval.

60 Castlereagh Street (Level 2 Internal) 12/03/2019

An alarm was received at 17:18pm advising that JHCPBG had used the allowable limit for works to occur with noise levels in excess of 50dB. An investigation was undertaken by the site Environmental Coordinator.

Upon review of real-time monitoring data, high impact works were only being undertaken between 13:15pm and 16:30pm. The real-time monitor systems are conservatively set up to assume that high impact works are being undertaken onsite. As this was not the case for most readings recorded in excess of 50dB, the 5dB penalty does not apply and therefore TSE works are deemed to be compliant with the project planning and Environmental approvals.

There is also an unexplained increase in noise levels being recorded between 18:15pm and 21:30pm. TSE works were not occurring onsite at the time of these readings. These readings are likely attributed to an internal noise source from within 60 Castlereagh Street as the monitor is located within a lecture theatre. It is likely that the room was being utilized during the evening.

Edinburgh Castle Hotel 15/03/2019

Real time noise monitor installed adjacent to Pitt St South site (Edinburgh Castle Hotel) logged a noise alarm as per E1.1. This notification triggers when there have been 39 logging periods (15 minutes each) at this site

above 50dBA between the working hours of 07:00-20:00 AEDT on 15 March. Currently, there have been 39 logging periods above 50dBA.

Upon investigation of operations at Pitt St South by the Construction, Environment & Community teams, the following was noted:

- the window of the room where the monitor is located was shut (note: as required)
- all respite periods specific for this site were observed
- noisy works had largely ceased on site from 3.15pm, coinciding with drop in noise levels at this time
- patronage of beer garden in Edinburgh Castle Hotel increased at approx. 4.30pm, coinciding with spike in noise levels at this time

It was concluded that an exceedance was not recorded on this occasion.

60 Castlereagh Street (Level 2 Internal) 20/03/2019

There were 42 periods recorded in excess of 50dB at the 60 Castlereagh Street (Level 2) noise monitor on the 20/03/2019. Data was reviewed by the site Environmental Coordinator.

Upon review of the data by the site Environmental Coordinator, it was noted that noise levels were exceptionally high and not consistent with works being undertaken onsite. It is therefore assumed that excessive noise levels were due to a source internal to 60 Castlereagh Street.

60 Castlereagh Street (Level 2 Internal) 21/03/2019

There were 41 periods recorded in excess of 50dB at the 60 Castlereagh Street (Level 2) noise monitor on the 21/03/2019.

Upon review of the data by the site Environmental Coordinator, it was noted that noise levels were exceptionally high and not consistent with works being undertaken onsite. It is therefore assumed that excessive noise levels were due to a source internal to 60 Castlereagh Street.

There is also an unexplained increase in noise levels being recorded between 18:00pm and 21:15pm. TSE works were not occurring onsite at the time of these readings. These readings are likely attributed to an internal noise source from within 60 Castlereagh Street as the monitor is located within a lecture theatre. It is likely that the room was being utilized during the evening.

Edinburgh Castle Hotel 22/03/2019

Real time noise monitor installed adjacent to Pitt St South site (Edinburgh Castle Hotel) logged a noise alarm as per E1.1. This notification triggers when there have been 39 logging periods (15 minutes each) at this site above 50dBA between the working hours of 07:00-20:00 AEDT on 22 March.

Upon investigation of operations at Pitt St South by the Construction, Environment & Community teams, the following was noted:

- the window of the room where the monitor is located was shut (note: as required)
- all respite periods specific for this site were observed
- noisy works had largely ceased on site from 3.15pm, coinciding with drop in noise levels at this time

- patronage of beer garden in Edinburgh Castle Hotel increased at approx. 4.00pm, coinciding with spike in noise levels at this time

It was concluded that an exceedance was not recorded on this occasion.

60 Castlereagh Street (Level 2 Internal) 25/03/2019

An email alert was sent at 16:18pm advising that JHCPBG was approaching the allowable limit for works to occur with noise levels in excess of 55dB (with a 5dB penalty). The site super visor was contacted at 16:51pm to confirm the duration of works. The site supervisor confirmed that works would cease within the allowable time limit. Noisy works onsite ceased at approximately 17:00pm.

Upon review of real-time monitoring data, from 18:00pm to 20:45pm, there is an unexplained increase in noise levels being recorded. TSE works were not occurring onsite at the time of these readings. These readings are likely attributed to an internal noise source from within 60 Castlereagh Street as the monitor is located within a lecture theatre. It is likely that the room was being utilized during the evening. Therefore, it is concluded that TSE works were compliant with condition E38 of the project Conditions of Approval.

Edinburgh Castle Hotel 29/03/2019

Real time noise monitor installed adjacent to Pitt St South site (Edinburgh Castle Hotel) logged a noise alarm as per E1.1. This notification triggers when there have been 39 logging periods (15 minutes each) at this site above 50dBA between the working hours of 07:00-20:00 AEDT on 29 March.

Upon investigation of operations at Pitt St South by the Construction, Environment & Community teams, the following was noted:

- the window of the room where the monitor is located was shut (note: as required)
- all respite periods specific for this site were observed
- noisy works had largely ceased on site from 3.00pm, coinciding with drop in noise levels at this time
- patronage of beer garden in Edinburgh Castle Hotel increased at approx. 4.45pm, coinciding with spike in noise levels at this time

It was concluded that an exceedance was not recorded on this occasion.

10 to 12 Clarke Street 29/03/2019

A noise alert as per E1.1 was triggered on Crows Nest Station site 10-12 Clarke St. The notification triggers when there have been more than 39 logging periods (15 minutes each) at this site above 50dBA between the working hours of 07:00-20:00 AEST.

A +5dBA penalty is applied to each logging period by default. This penalty is only applicable for high impact activities. When removing the +5dBA penalty for logging periods where high impact works were not occurring and removing 10dBA for façade loss, the data displays 25 logging periods over 65dBA and 38 logging periods above 60dBA. These levels are compliant with condition E1.1.

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	237 Miller Street, North Sydney	243 Miller Street, North Sydney	25A Hickson Road, Millers Point	50 Martin Place, Sydney	60 Castlereagh Street (Basement), Sydney	60 Castlereagh Street (level 2), Sydney	Castlereagh Boutique Hotel	211-217 Castlereagh Street, Sydney
Criteria (mm/s)	25	25	25	25	7.5	25	7.5	25	25	7.5	7.5
01/03/2019	0.53	0.31	0.85	0.8	2.42	0.45	0.25	1.7	0.54	1.89	0.59
02/03/2019	0.51	0.51	0.4	1	2.39	0.13	0.32	5.02	2.87	1.56	0.61
03/03/2019	1	0.22	0.21	0.11	0.97	0.1	0.21	0.18	0.3	7.47	0.12
04/03/2019	0.65	0.35	0.74	0.66	2.23	0.13	0.24	2.62	0.87	3.93	2.37
05/03/2019	1.16	0.38	0.29	0.9	2.23	0.13	0.27	5.38	1.14	2.71	2.35
06/03/2019	0.7	0.59	0.32	0.61	1.39	0.18	0.27	3.4	0.65	6.97	1.74
07/03/2019	0.85	0.22	0.37	0.38	0.97	0.18	0.26	2.34	0.95	2.05	0.78
08/03/2019	1.19	0.22	0.55	0.37	0.91	0.11	0.26	4.04	1.34	5.2	7.39
09/03/2019	0.64	0.23	0.75	0.11	0.43	0.11	0.34	1.9	0.62	1.96	1.45
10/03/2019	0.51	0.19	0.19	0.09	0.43	0.11	0.22	0.21	0.22	2.59	0.09
11/03/2019	0.59	0.24	0.67	0.59	0.89	0.11	0.29	1.7	0.39	1.93	18.25
12/03/2019	0.96	0.43	0.99	0.53	0.91	51.71	0.26	2.16	0.47	3.66	18.6
13/03/2019	3.05	0.36	0.74	0.57	1.26	0.78	0.23	2.35	0.7	2.23	1.5
14/03/2019	1.03	0.6	0.5	0.51	1.68	0.16	0.32	1.62	0.43	7.36	0.78
15/03/2019	0.92	0.22	0.75	0.41	4.3	0.13	0.36	3.88	0.37	4.56	0.67
16/03/2019	1.26	0.27	1.26	0.47	1.87	0.13	0.96	4.45	0.89	5.37	0.38
17/03/2019	0.79	0.28	0.83	0.13	0.73	0.08	2.1	0.21	0.24	1.55	0.14
18/03/2019	0.79	1.07	0.4	0.72	1.66	0.13	0.45	10.16	3.03	2.64	0.82
19/03/2019	1.03	0.41	0.3	0.79	2.23	0.34	0.33	0.69	0.24	1.27	0.56
20/03/2019	0.93	0.31	0.43	0.76	1.92	0.16	0.27	12.09	0.89	1.64	25.37
21/03/2019	1.11	0.33	0.51	0.79	1.63	0.16	0.23	12.55	2.67	1.55	2.2
22/03/2019	1.1	0.38	0.51	0.78	1.34	0.16	0.53	9.27	0.91	1.26	0.84
23/03/2019	0.68	0.36	0.32	0.57	1.61	0.13	0.22	8.38	1.14	3.56	0.49
24/03/2019	1.16	0.28	0.19	0.16	1.61	0.08	0.22	0.31	0.2	1.48	0.14
25/03/2019	1.16	0.49	0.51	1.01	1.07	0.2	0.4	6.69	1.73	3.04	0.4
26/03/2019	0.92	0.22	0.45	0.57	1.29	0.11	0.34	2.08	0.34	1.5	0.4
27/03/2019	0.64	0.66	0.62	0.63	1.63	0.18	0.36	1.57	0.28	2.84	0.52
28/03/2019	0.45	0.26	0.4	3.27	1.18	0.1	0.35	3.47	0.32	4.62	0.55
29/03/2019	1.76	0.38	0.35	0.69	1.68	0.23	0.25	2.13	0.5	4.36	0.36
30/03/2019	0.55	0.15	0.4	0.36	0.97	0.48	0.28	2.91	0.35	1.09	0.3
31/03/2019	1.05	0.16	0.29	0.14	0.13	0.21	0.25	0.66	0.26	0.59	0.49

Real-Time Vibration Results Comments:

211-217 Castlereagh Street, Sydney 11/03/2019

Real time vibration monitor installed adjacent to Pitt St South site (City of Sydney Fire Station) logged vibration figures of 18.3mm/s (4.18pm), 6.1mm/s (4.31pm), 8.6mm/s (4.34pm) on 11 March 2019. The designated maximum allowable vibration figure for this site is 25mm/s, on any axis.

211-217 Castlereagh Street, Sydney 12/03/2019

VIBRATION - Real time vibration monitor installed adjacent to Pitt St South site (City of Sydney Fire Station) logged vibration figures of 9.3mm/s (10.41am), 7.3mm/s (10.46am), 18.6mm/s (12.38pm), 7.4mm/s (12.48pm), 5.8mm/s (1.05pm) on 12 March 2019. The designated maximum allowable vibration figure for this site is 25mm/s, on any axis.

25A Hickson Road, Millers Point 12/03/2019

On 12 March 2019 at 9:10 am 1 consecutive logging periods (1 minute periods), the max level was 51.7mm/s.

Investigation undertaken with PM for Nth shaft. Contact was made with shift supervisor who confirmed no high impact works were being undertaken towards the location of the monitor - hammering was continuing at the other end of crossover but had continued after notification without registering on the monitor. It was observed that there was renovation works being undertaken on the building containing the monitor which may have been the cause.

211-217 Castlereagh Street, Sydney 20/03/2019

Real time vibration monitor installed adjacent to Pitt St South site logged vibration figures of 25.37mm/s on 20 March 2019. The designated maximum allowable vibration figure for this site is 25mm/s, on any axis.

An investigation was carried out by the senior environmental coordinator, supervisor & project engineer. It was found that these exceedances coincided with local excavation of the pre-existing concrete slab using an excavator with hammer attachment at the rear of 302 Pitt St. Works were stopped and methodology reviewed in line with project noise and vibration management plan, works continued with a smaller excavator. This works using this plant item, in this area, of this nature, are now complete.