

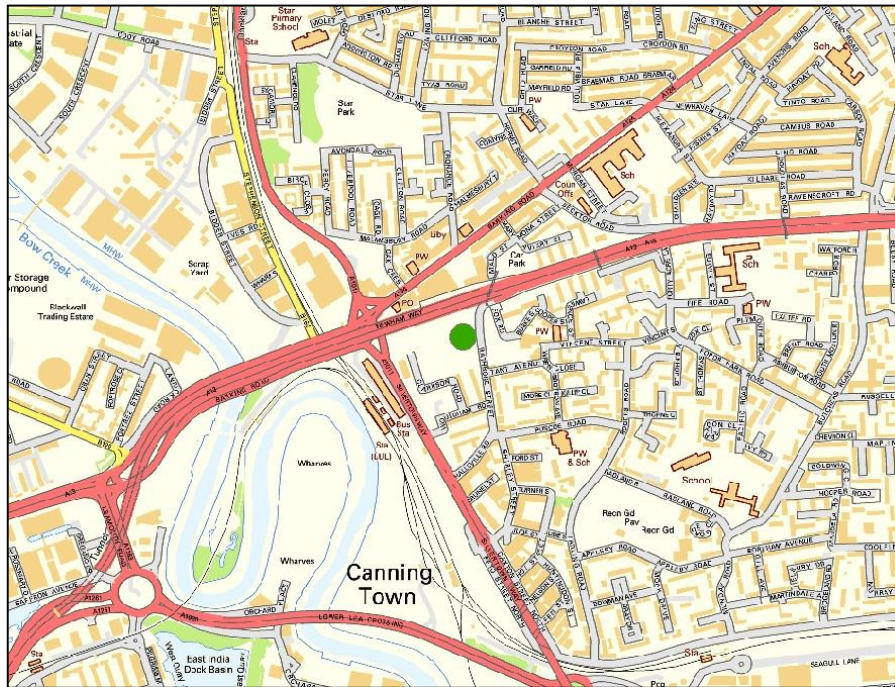
SILVERTOWN TUNNEL

**Preliminary  
Environmental  
Information Report:  
Appendix 14.B**

**Noise and  
Vibration Baseline  
Information**

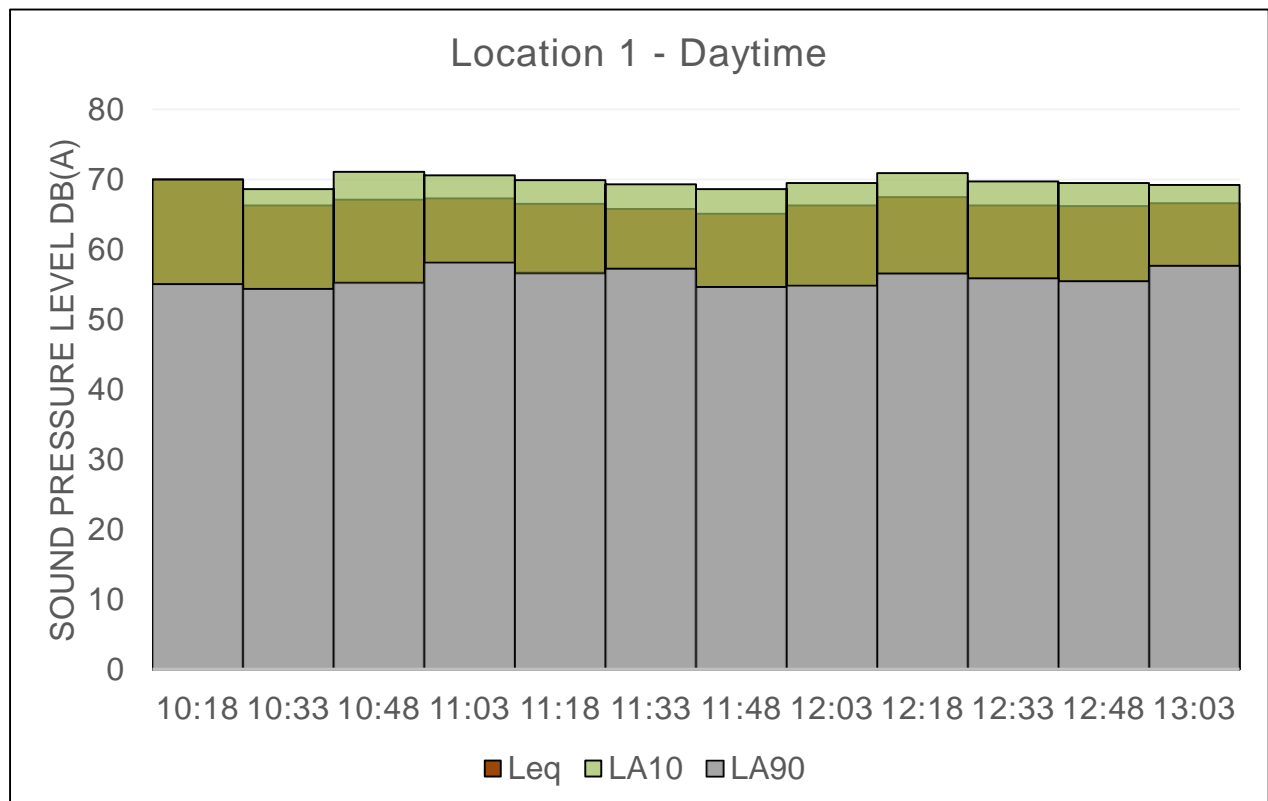
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# 1. LOCATION 1



DAYTIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	18/06/2015 10:18
Measurement Stop Time	18/06/2015 13:18
Measure Time	00d 03:00:31.7



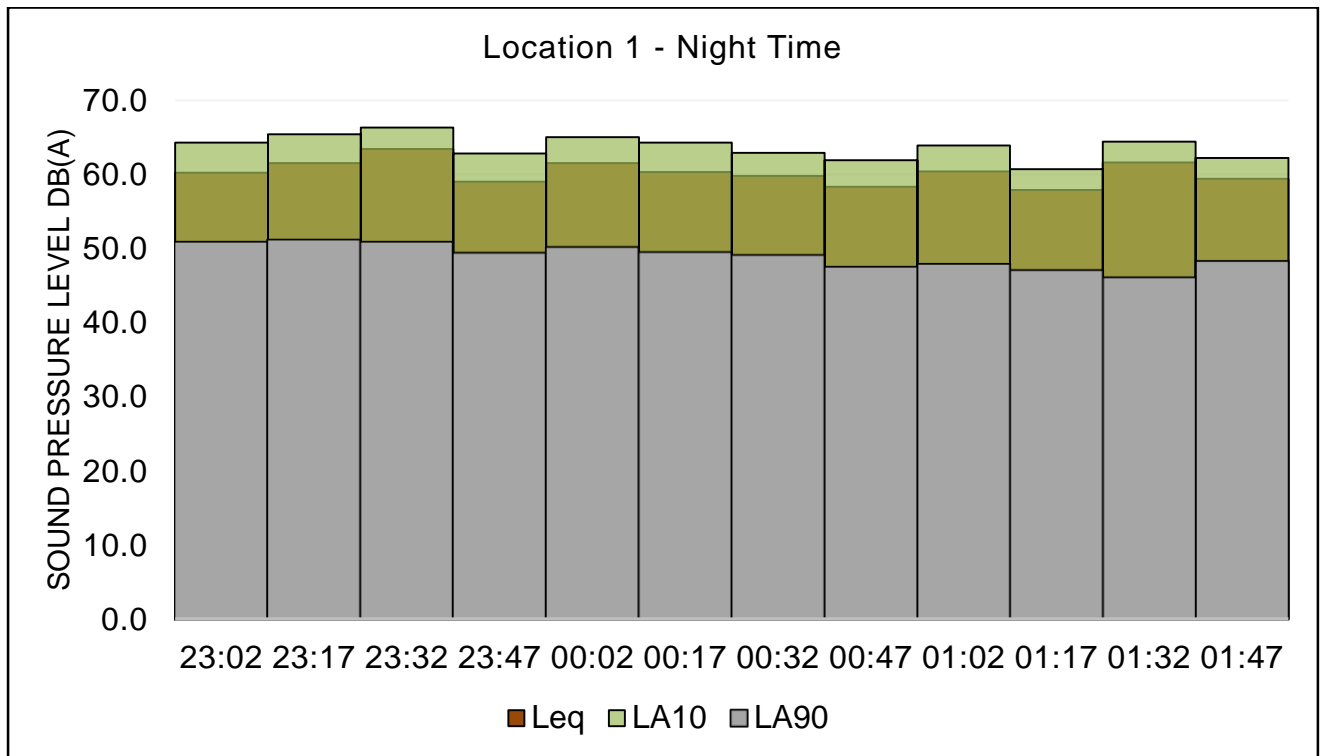
Silvertown Tunnel Preliminary Environmental Information Report

Appendix 14.A: Noise and Vibration Baseline Information

Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
10:18	15 min	70.0	89.0	50.8	83.9	70.0	63.3	55.0	52.2
10:33	15 min	66.3	87.0	50.5	76.7	68.6	61.9	54.3	52.1
10:48	15 min	67.1	87.9	51.5	76.9	71.1	62.4	55.2	52.7
11:03	15 min	67.3	85.5	50.8	76.7	70.6	64.0	58.1	54.1
11:18	15 min	66.5	83.5	51.4	75.6	69.9	63.4	56.6	52.9
11:33	15 min	65.8	80.0	49.8	74.5	69.3	63.4	57.2	53.0
11:48	15 min	65.1	85.0	50.7	74.3	68.6	62.0	54.6	51.8
12:03	15 min	66.3	87.5	49.6	76.1	69.5	61.8	54.8	51.2
12:18	15 min	67.5	83.9	50.1	76.5	70.9	64.5	56.5	51.1
12:33	15 min	66.3	81.1	51.2	75.6	69.7	63.5	55.8	52.5
12:48	15 min	66.2	84.3	51.5	75.8	69.5	62.4	55.4	52.8
13:03	15 min	66.6	84.9	52.3	76.5	69.2	63.6	57.6	54.2
13:18	15 min	65.0	73.8	53.0	73.5	69.5	58.8	54.1	53.4

NIGHT TIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	18/06/2015 23:02
Measurement Stop Time	19/06/2015 02:02
Measure Time	00d 03:00:00.0



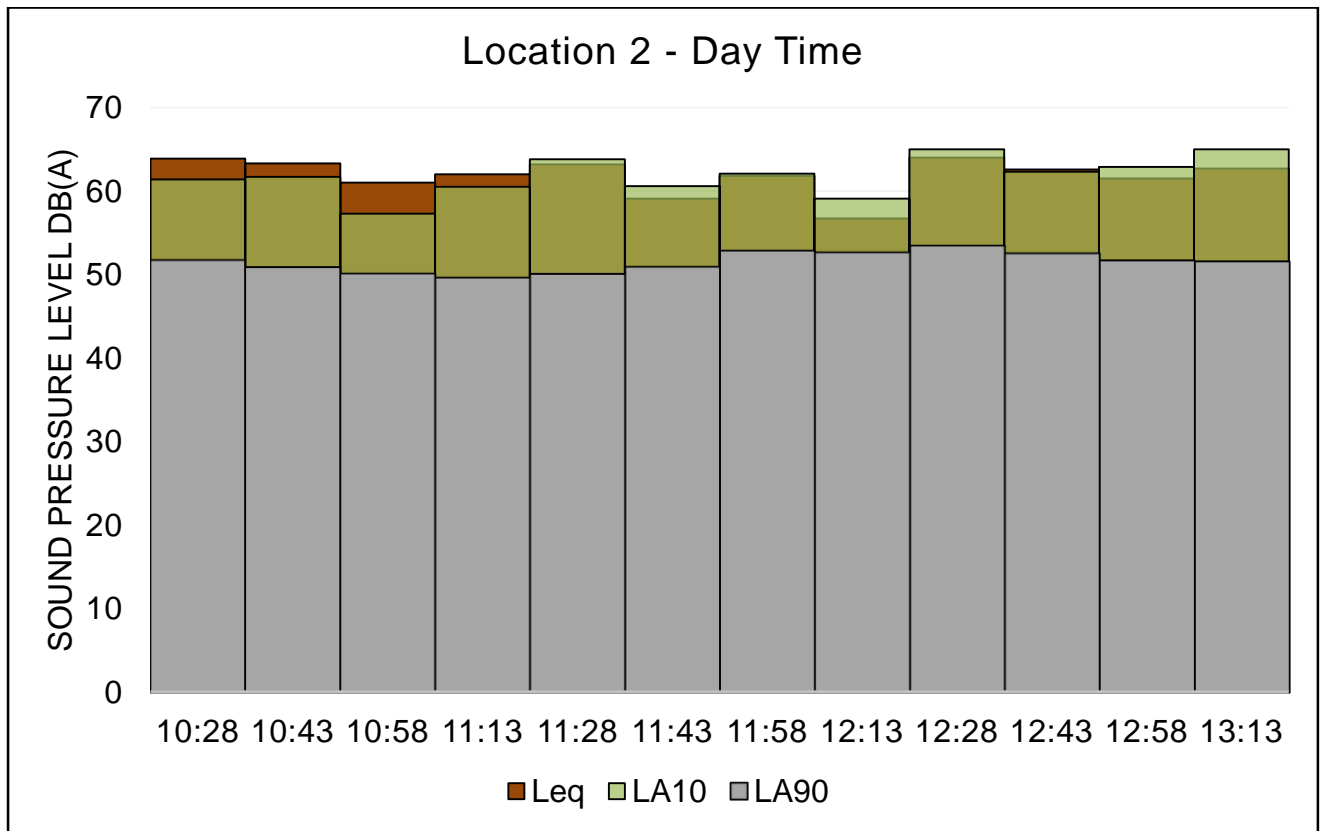
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
23:02	15 min	60.2	73.4	47.4	69.9	64.3	55.5	50.9	48.8
23:17	15 min	61.5	78.8	47.6	72.5	65.4	55.6	51.2	49.0
23:32	15 min	63.4	83.2	46.9	74.7	66.3	55.3	50.9	48.6
23:47	15 min	59.0	75.7	45.5	69.9	62.8	52.6	49.4	47.2
00:02	15 min	61.5	80.8	45.3	72.6	65.0	54.3	50.2	47.9
00:17	15 min	60.3	78.0	44.4	71.8	64.3	53.1	49.5	46.4
00:32	15 min	59.8	77.4	44.5	71.0	62.9	52.3	49.1	46.4
00:47	15 min	58.3	77.4	42.9	69.4	61.9	51.6	47.5	44.5
01:02	15 min	60.4	77.0	43.9	72.8	63.9	51.2	47.9	45.3
01:17	15 min	57.9	77.0	43.4	70.4	60.7	50.4	47.1	44.7
01:32	15 min	61.6	79.8	42.0	74.7	64.4	50.6	46.1	43.3
01:47	15 min	59.4	78.0	42.4	72.2	62.2	53.7	48.3	43.5

## 2. LOCATION 2



### DAY TIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	17/06/2015 10:28
Measurement Stop Time	17/06/2015 13:28
Measure Time	00d 03:00:00.0

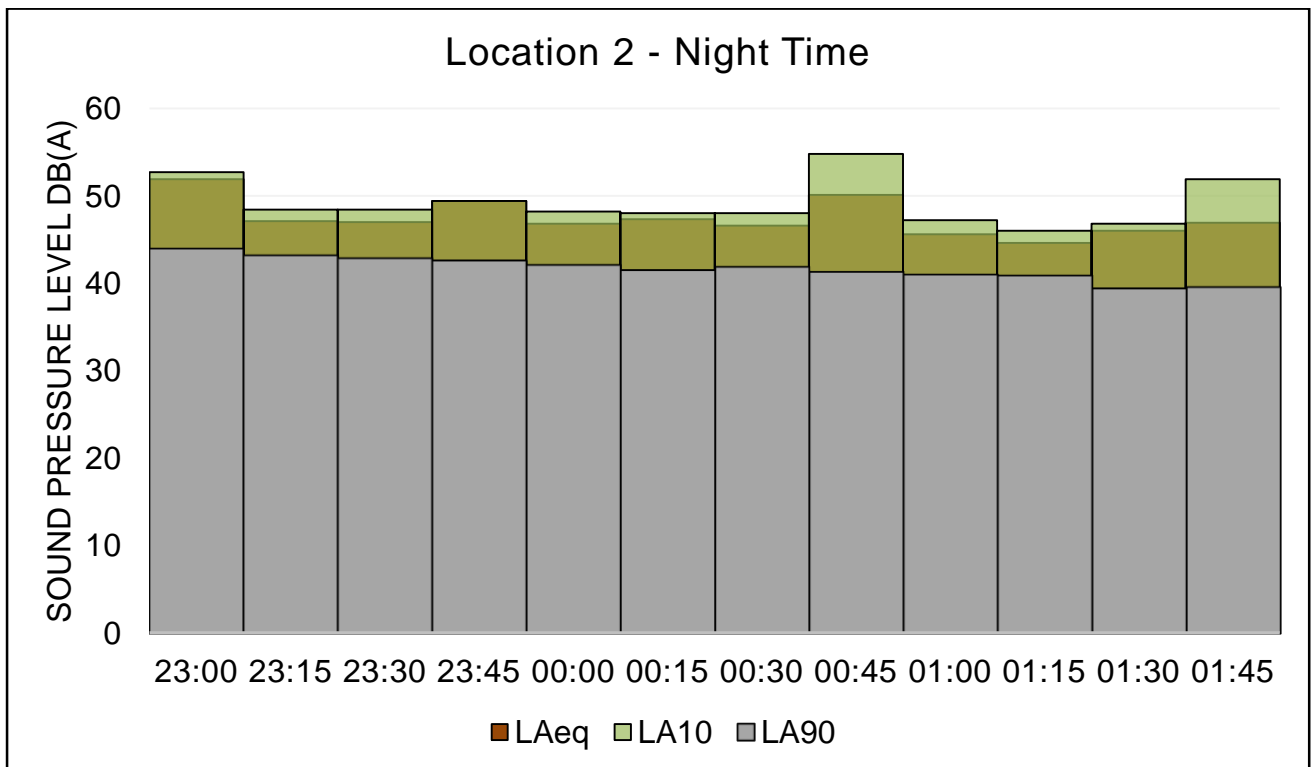


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
10:28	15 min	63.9	82.5	49.4	77.5	61.4	54.1	51.7	50.5
10:43	15 min	63.3	81.5	48.3	76.8	61.7	53.4	50.8	49.3
10:58	15 min	61.0	83.5	47.7	75.4	57.3	51.9	50.1	48.9
11:13	15 min	62.0	83.3	46.1	76.1	60.5	52.0	49.6	47.8
11:28	15 min	63.2	81.5	47.4	76.4	63.8	53.6	50.0	48.5
11:43	15 min	59.1	78.3	47.4	72.5	60.6	54.0	50.9	49.4
11:58	15 min	61.8	81.5	50.4	75.4	62.1	55.6	52.8	51.5
12:13	15 min	56.7	75.9	48.3	63.8	59.1	55.1	52.6	50.9
12:28	15 min	64.0	82.9	50.5	77.1	65.0	56.4	53.4	51.8
12:43	15 min	62.6	80.6	49.4	75.5	62.3	55.2	52.5	51.0
12:58	15 min	61.5	80.5	48.5	73.8	62.9	55.7	51.6	49.7
13:13	15 min	62.7	80.8	49.4	76.2	65.0	54.0	51.5	50.3



NIGHT TIME SURVEY

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	18/06/2015 23:00
Measurement Stop Time	19/06/2015 02:00
Measure Time	00d 03:00:00.



# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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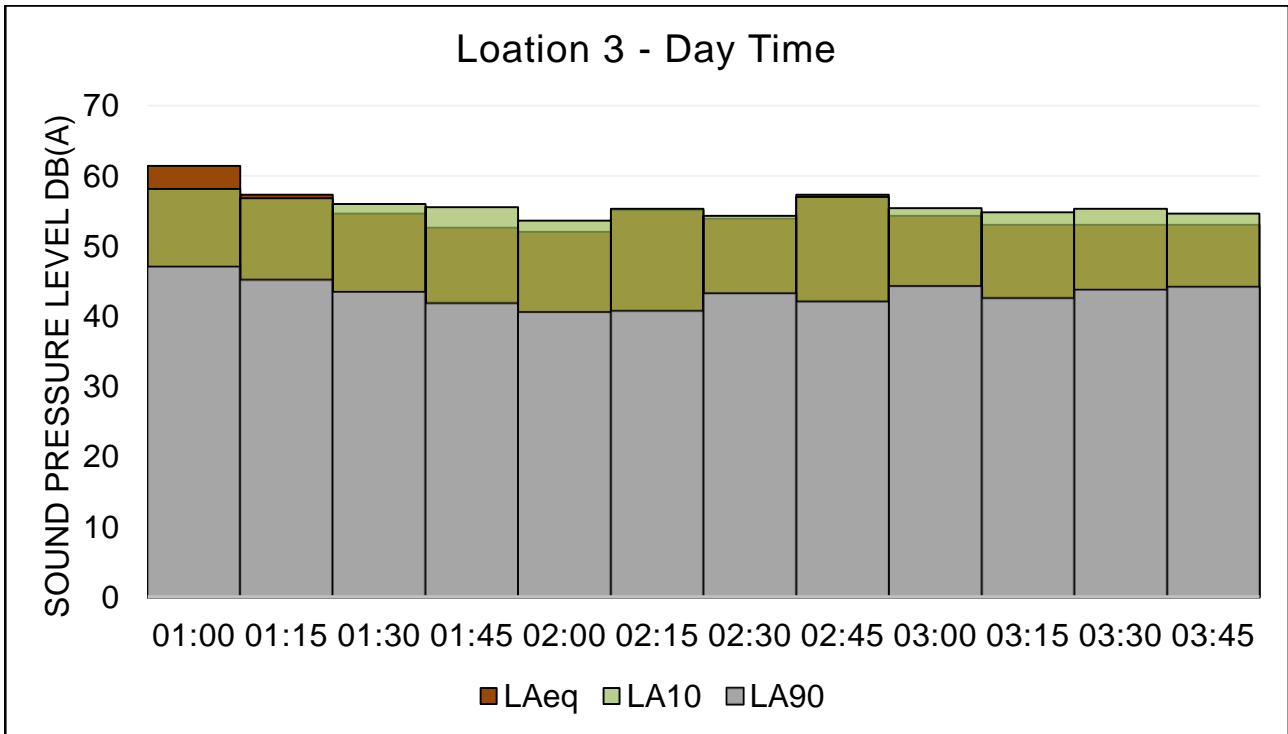
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
23:00	15 min	51.9	72.8	40.4	63.9	52.7	47.3	44.0	41.7
23:15	15 min	47.1	65.1	40.1	56.3	48.4	45.3	43.2	41.6
23:30	15 min	47.0	59.7	40.4	57.3	48.4	45.2	42.9	41.7
23:45	15 min	49.4	71.7	39.5	61.7	49.4	45.1	42.6	40.7
00:00	15 min	46.8	66.2	38.4	56.6	48.2	44.1	42.1	39.5
00:15	15 min	47.3	66.3	39.1	57.1	48.0	44.6	41.5	40.0
00:30	15 min	46.6	64.4	38.5	56.6	48.0	44.6	41.9	39.6
00:45	15 min	50.1	69.4	37.4	60.9	54.8	44.2	41.3	38.6
01:00	15 min	45.6	61.7	38.7	54.7	47.2	44.1	41.0	39.5
01:15	15 min	44.6	62.8	38.7	53.4	46.0	43.0	40.9	39.7
01:30	15 min	46.0	67.5	36.1	56.6	46.8	41.7	39.4	37.2
01:45	15 min	46.9	62.0	37.8	54.9	51.9	42.7	39.6	38.4

### 3. LOCATION 3



#### DAY TIME SURVEY

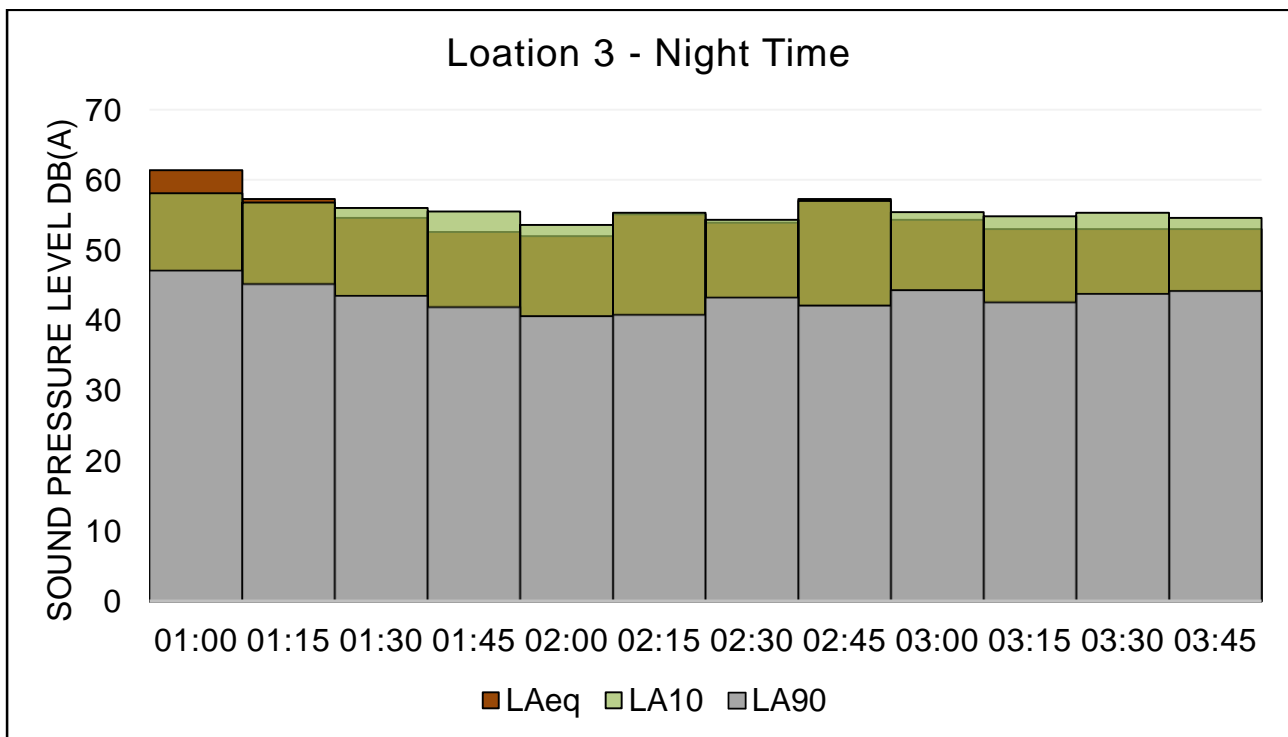
Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	03/07/2015 10:30
Measurement Stop Time	03/07/2015 13:30
Measure Time	00d 3:00:00.



Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
10:30	15 min	63.1	79.8	48.5	74.2	64.8	59.9	54.4	50.7
10:45	15 min	63.8	81.6	48.6	76.4	65.0	59	54.4	50.5
11:00	15 min	64.2	82.1	49.6	77.7	64.4	59.2	54.6	51.9
11:15	15 min	61.8	79.2	49.2	70.8	63.9	59.3	54.7	51.2
11:30	15 min	64.4	83.1	49.4	76.7	65.4	59.5	54.2	51.0
11:45	15 min	63.2	81.8	49.7	75.7	64.6	59.7	54.5	51.0
12:00	15 min	63.4	84.5	49.9	74.9	64.5	59.3	55.0	51.6
12:15	15 min	64.8	83.3	51.2	76.6	66.2	60.5	56.4	53.4
12:30	15 min	62.5	81.8	50.9	71.6	64.6	60.2	56.1	52.9
12:45	15 min	64.3	82.4	52.6	75.7	65.2	60.2	56.8	54.5
13:00	15 min	61.9	76.4	50.9	69.8	64.9	60.2	55.0	52.8
13:15	15 min	64.2	81.7	53.1	76.4	65.2	60.9	57	54.5

### NIGHT TIME SURVEY

Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	03/07/2015 10:30
Measurement Stop Time	03/07/2015 13:30
Measure Time	00d 3:00:00.



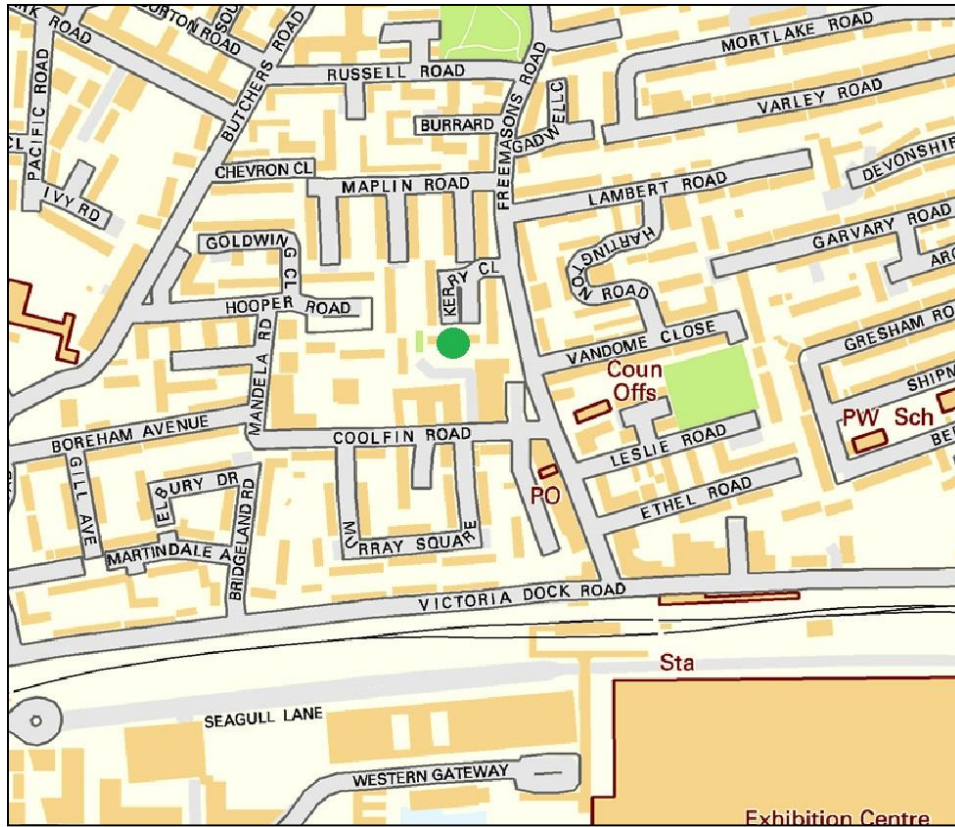
# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
10:30	15 min	63.1	79.8	48.5	74.2	64.8	59.9	54.4	50.7
10:45	15 min	63.8	81.6	48.6	76.4	65.0	59.0	54.4	50.5
11:00	15 min	64.2	82.1	49.6	77.7	64.4	59.2	54.6	51.9
11:15	15 min	61.8	79.2	49.2	70.8	63.9	59.3	54.7	51.2
11:30	15 min	64.4	83.1	49.4	76.7	65.4	59.5	54.2	51.0
11:45	15 min	63.2	81.8	49.7	75.7	64.6	59.7	54.5	51.0
12:00	15 min	63.4	84.5	49.9	74.9	64.5	59.3	55.0	51.6
12:15	15 min	64.8	83.3	51.2	76.6	66.2	60.5	56.4	53.4
12:30	15 min	62.5	81.8	50.9	71.6	64.6	60.2	56.1	52.9
12:45	15 min	64.3	82.4	52.6	75.7	65.2	60.2	56.8	54.5
13:00	15 min	61.9	76.4	50.9	69.8	64.9	60.2	55.0	52.8
13:15	15 min	64.2	81.7	53.1	76.4	65.2	60.9	57.0	54.5

## 4. LOCATION 4

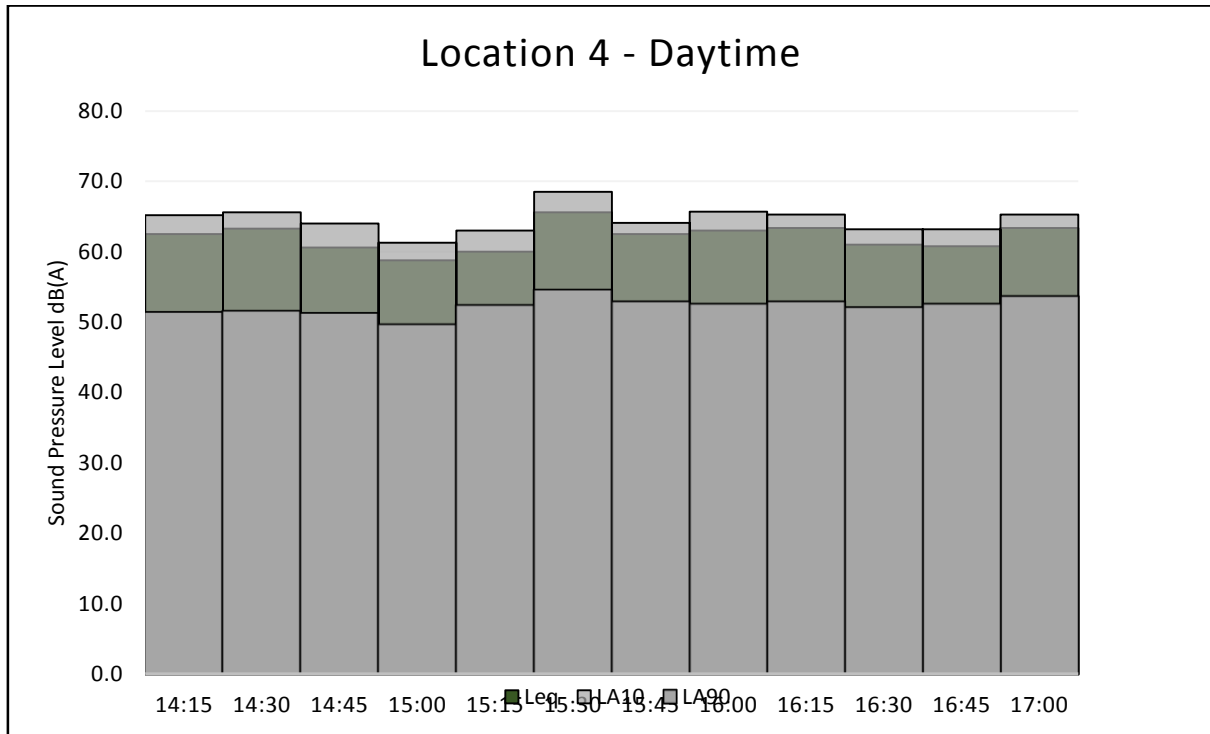


### DAYTIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	17/06/2015 14:15
Measurement Stop Time	17/06/2015 17:15
Measure Time	00d 03:00:00.9

Silvertown Tunnel Preliminary Environmental Information Report

Appendix 14.A: Noise and Vibration Baseline Information

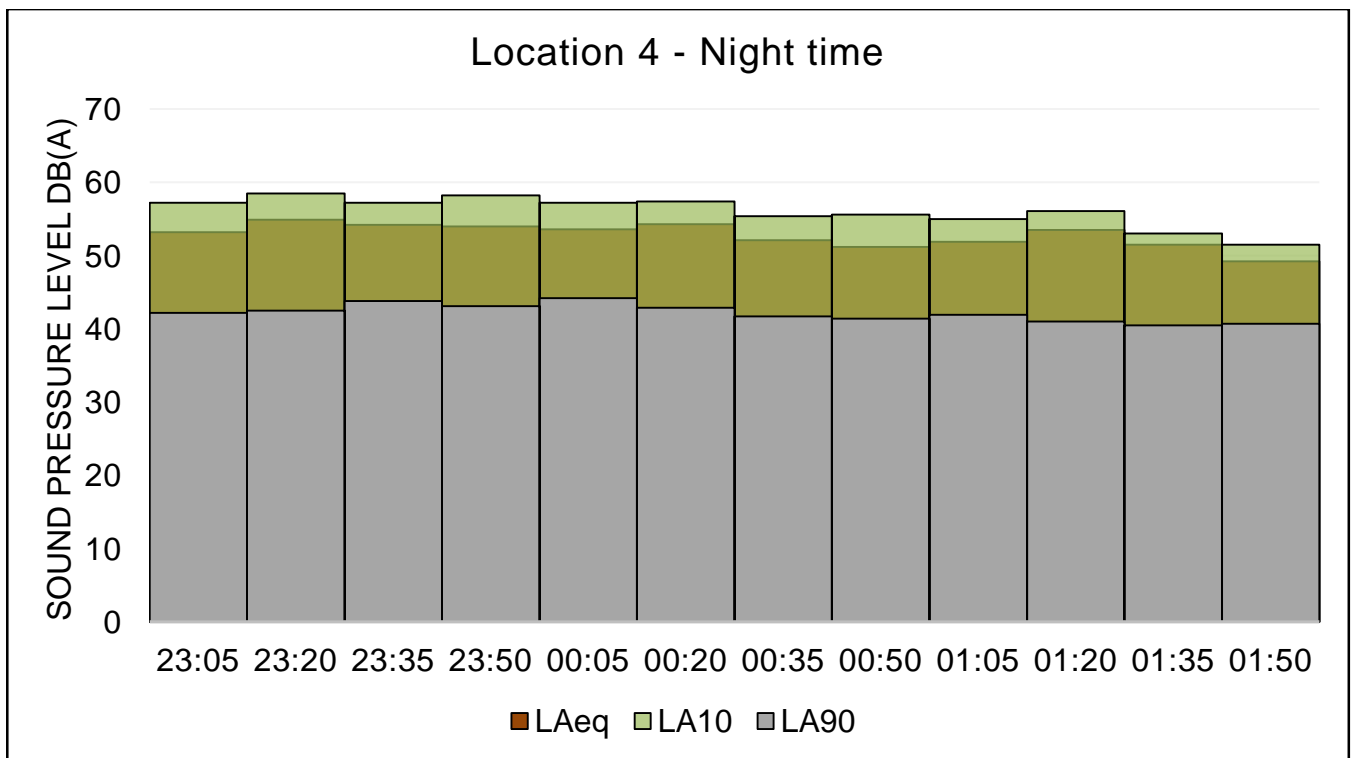


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
14:15	15 min	62.5	82.8	47.8	73.8	65.2	56.8	51.4	49.3
14:30	15 min	63.3	80.2	48.8	75.0	65.6	58.0	51.6	49.6
14:45	15 min	60.6	76.3	47.1	69.9	64.0	57.5	51.3	48.6
15:00	15 min	58.8	76.8	46.2	69.9	61.3	54.6	49.7	48.0
15:15	15 min	60.0	77.7	48.9	70.2	63.0	56.8	52.4	50.4
15:30	15 min	65.6	88.2	50.7	76.2	68.5	59.9	54.6	52.0
15:45	15 min	62.5	81.6	49.2	74.7	64.1	57.9	52.9	50.6
16:00	15 min	63.0	81.7	49.0	74.2	65.7	58.3	52.6	50.2
16:15	15 min	63.4	83.7	49.2	75.3	65.3	58.6	52.9	50.6
16:30	15 min	61.0	79.4	48.8	72.5	63.2	57.0	52.1	50.2
16:45	15 min	60.8	81.0	49.5	70.4	63.2	57.2	52.6	51.0
17:00	15 min	63.4	83.7	48.4	75.2	65.3	58.5	53.7	49.8
17:15	15 min	54.0	57.0	52.5	56.1	56.1	53.1	52.6	52.6



NIGHT TIME SURVEY

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	27/06/2015 23:05
Measurement Stop Time	28/06/2015 02:05
Measure Time	00d 03:00:00.



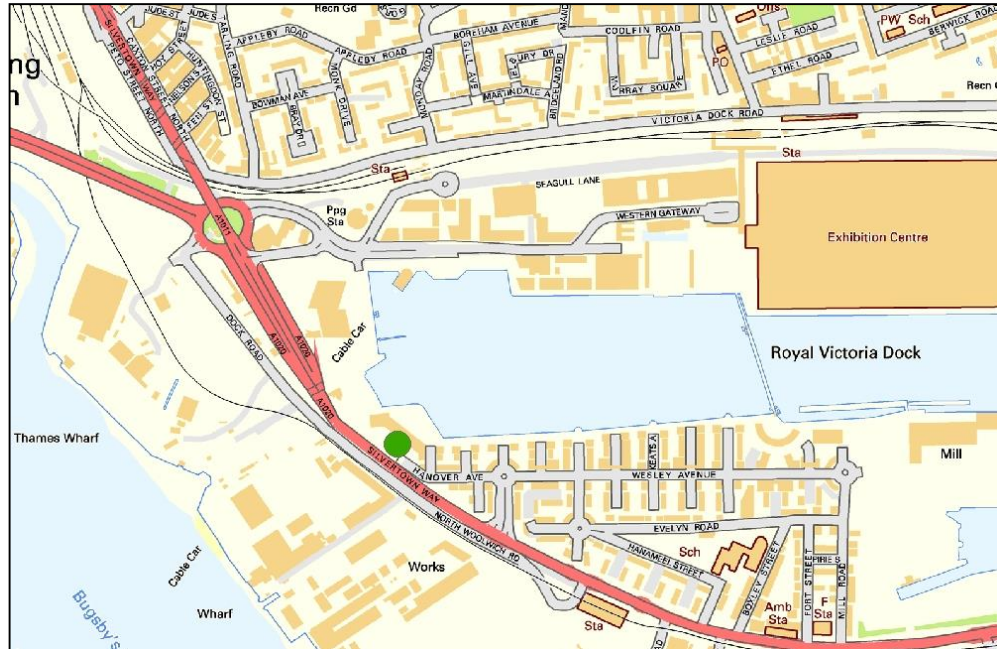
# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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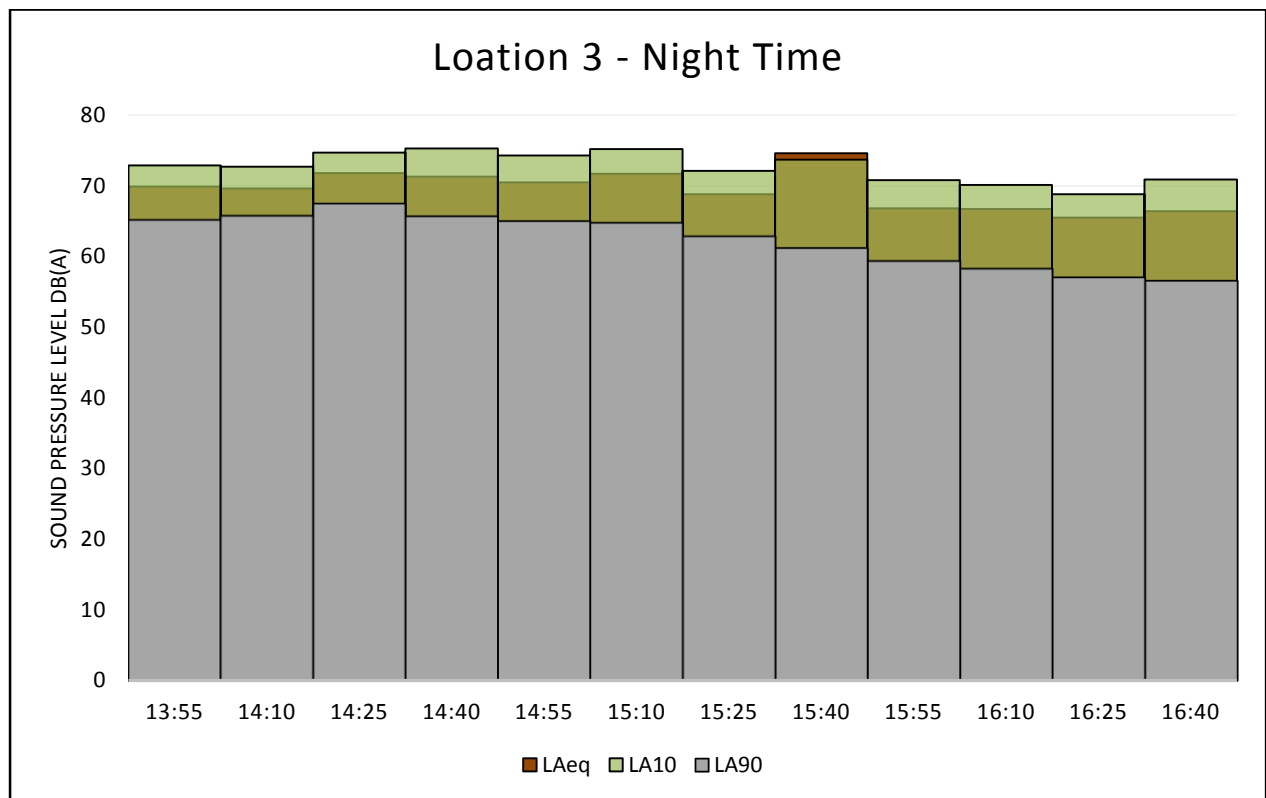
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
23:05	15 min	53.2	68.9	39.6	64.7	57.2	46.6	42.2	40.5
23:20	15 min	54.9	75.1	39.6	66	58.5	48	42.5	40.8
23:35	15 min	54.2	74	40.6	65.6	57.2	47.4	43.8	42.1
23:50	15 min	54	73.1	40.8	63.7	58.2	47.8	43.1	41.7
00:05	15 min	53.6	69	40.7	63.9	57.2	50.2	44.2	41.8
00:20	15 min	54.3	76.7	40.8	66.3	57.4	46.9	42.9	41.8
00:35	15 min	52.1	72.2	39.4	63.9	55.4	44.9	41.7	40.3
00:50	15 min	51.2	65.6	39.4	62.3	55.6	44.3	41.4	40.3
01:05	15 min	51.9	67.9	39.8	63.9	55	44.4	41.9	40.8
01:20	15 min	53.5	77.9	38.5	65	56.1	43.5	41	39.5
01:35	15 min	51.5	72.5	38.5	64.2	53	42.6	40.5	39.5
01:50	15 min	49.2	66.4	38.3	61.2	51.5	43	40.7	39.4

## 5. LOCATION 5



### DAY TIME SURVEY

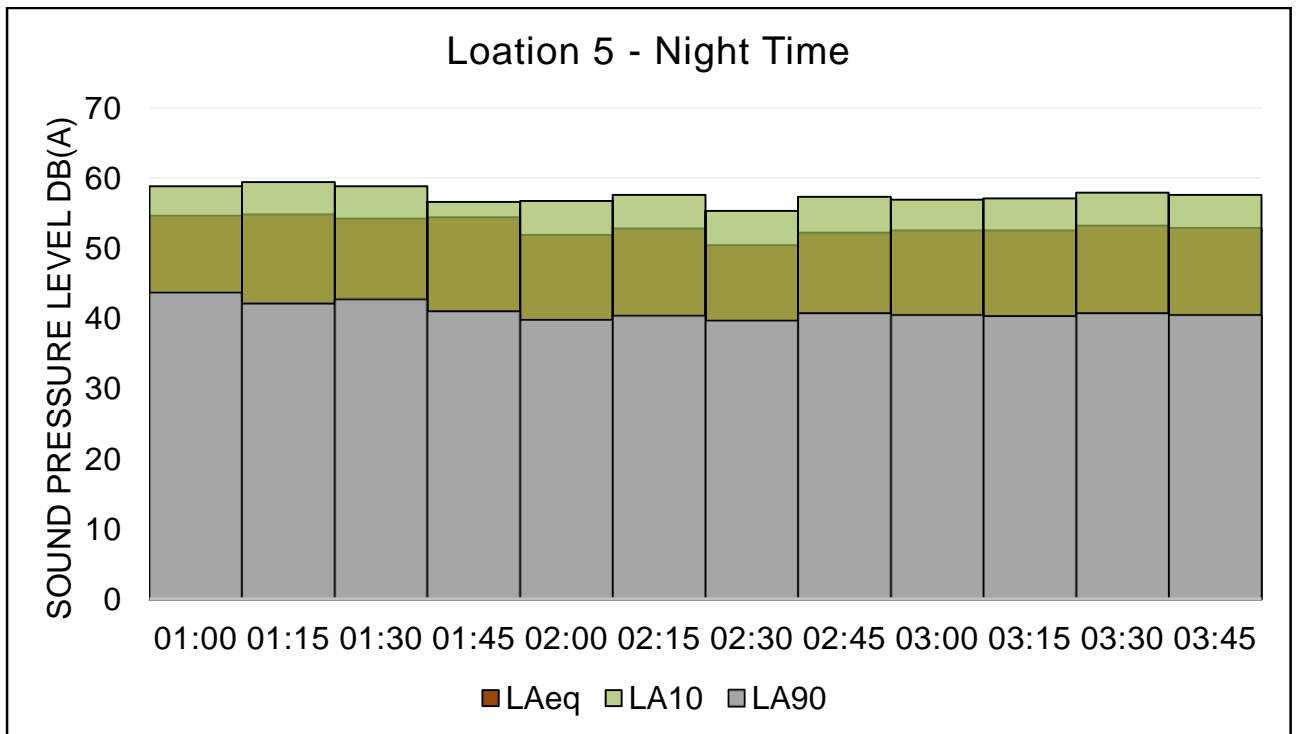
Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	2015/07/03 13:55:00
Measurement Stop Time	2015/07/03 16:55:00
Measure Time	00d 3:00:00.



Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
13:55	15 min	69.9	84.5	62.3	79.2	72.9	67.1	65.1	63.8
14:10	15 min	69.6	83.5	63.1	78.1	72.7	67.3	65.7	64.8
14:25	15 min	71.8	88.5	64.5	80.3	74.7	69.3	67.4	65.8
14:40	15 min	71.3	87.7	63.1	79.3	75.3	68.4	65.6	64.3
14:55	15 min	70.5	85.4	61.5	78.9	74.3	67.5	64.9	63.1
15:10	15 min	71.7	86.9	62.4	79.5	75.2	69.4	64.7	63.5
15:25	15 min	68.8	83.4	58.9	78.2	72.1	65.9	62.8	60.8
15:40	15 min	74.6	104.1	57.3	83.1	73.7	65	61.1	58.9
15:55	15 min	66.8	80.8	54.3	75.9	70.8	63.5	59.3	56.3
16:10	15 min	66.7	83.4	52.7	77.1	70.1	61.7	58.2	55.4
16:25	15 min	65.5	82.9	53.4	76.6	68.8	60.4	57	55.2
16:40	15 min	66.4	83.4	52.8	76.9	70.9	59.8	56.5	54.4

NIGHT TIME SURVEY

Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	06/07/2015 01:00
Measurement Stop Time	06/07/2015 04:00
Measure Time	00d 3:00:00.



# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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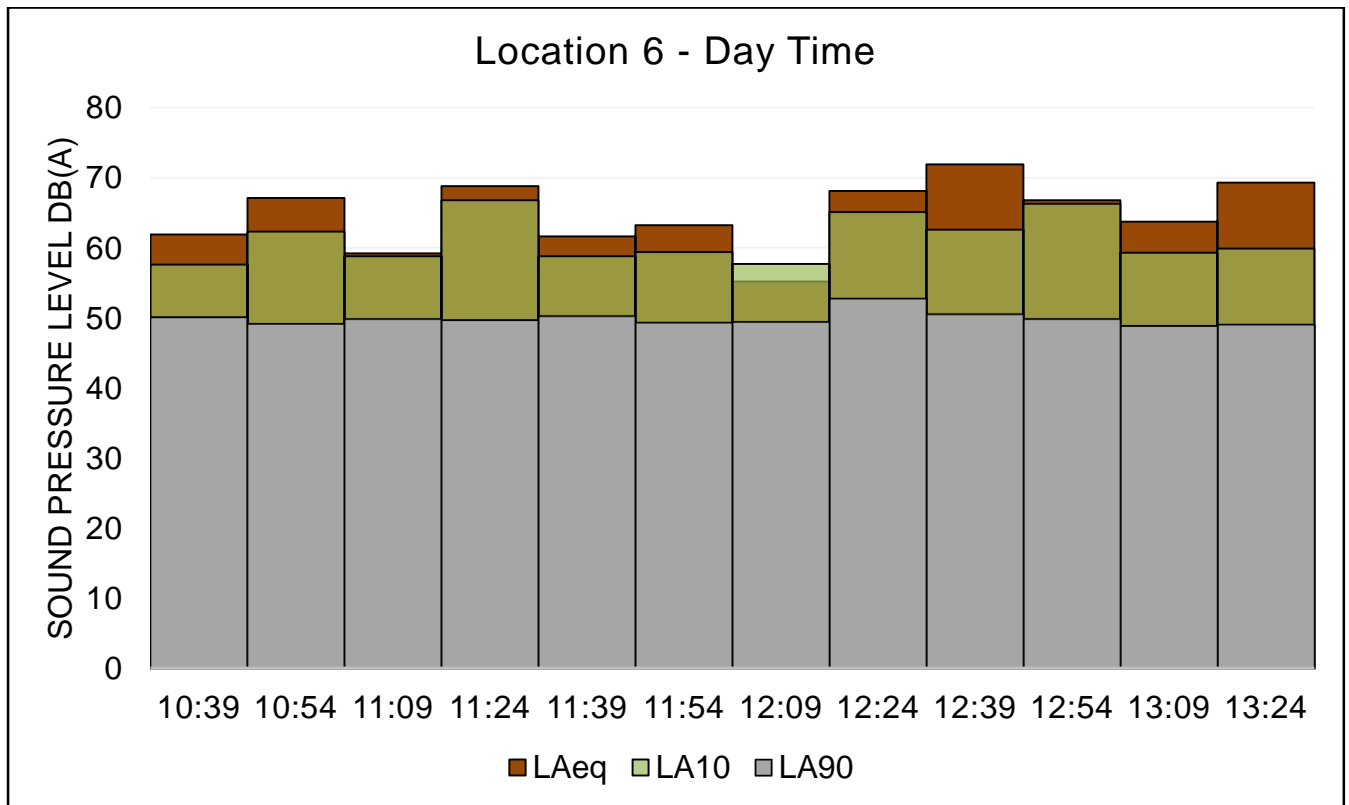
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
01:00	15 min	54.6	65.6	40.7	62.6	58.8	50.9	43.6	41.8
01:15	15 min	54.8	64.7	39.9	62.6	59.4	50.1	42	40.7
01:30	15 min	54.2	64	39.9	62.4	58.8	50.1	42.6	41
01:45	15 min	54.4	79.1	38.9	62.5	56.6	45.3	40.9	39.8
02:00	15 min	51.9	64.4	37.8	62.1	56.7	45.1	39.7	38.6
02:15	15 min	52.8	68.8	37.7	63.1	57.6	44	40.3	38.7
02:30	15 min	50.4	63.5	37.8	60.4	55.3	42.3	39.6	38.6
02:45	15 min	52.2	68.2	38.3	60.5	57.3	46.2	40.6	39.5
03:00	15 min	52.5	63.1	38.3	61.3	56.9	47.3	40.4	39.2
03:15	15 min	52.5	65.5	37.9	61.7	57.1	46.1	40.2	39.1
03:30	15 min	53.2	66.1	37.9	63.1	57.9	45.8	40.6	39.3
03:45	15 min	52.9	68.1	38.7	63.4	57.6	44.3	40.4	39.6

## 6. LOCATION 6



### DAY TIME SURVEY

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	17/06/2015 10:39
Measurement Stop Time	17/06/2015 13:24
Measure Time	00d 03:00:00.

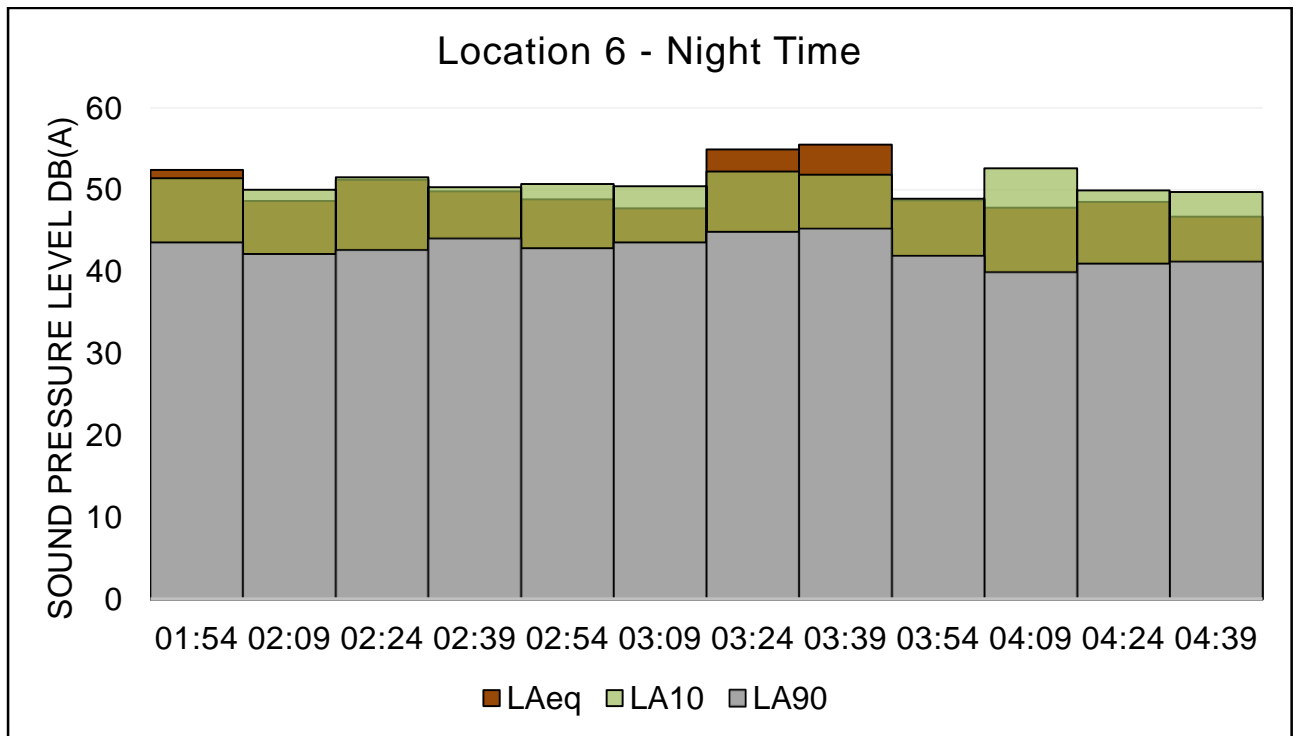


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
10:39	15 min	51.9	72.8	40.4	63.9	52.7	47.3	44	41.7
10:54	15 min	47.1	65.1	40.1	56.3	48.4	45.3	43.2	41.6
11:09	15 min	47.0	59.7	40.4	57.3	48.4	45.2	42.9	41.7
11:24	15 min	49.4	71.7	39.5	61.7	49.4	45.1	42.6	40.7
11:39	15 min	46.8	66.2	38.4	56.6	48.2	44.1	42.1	39.5
11:54	15 min	47.3	66.3	39.1	57.1	48.0	44.6	41.5	40
12:09	15 min	46.6	64.4	38.5	56.6	48.0	44.6	41.9	39.6
12:24	15 min	50.1	69.4	37.4	60.9	54.8	44.2	41.3	38.6
12:39	15 min	45.6	61.7	38.7	54.7	47.2	44.1	41	39.5
12:54	15 min	44.6	62.8	38.7	53.4	46.0	43	40.9	39.7
13:09	15 min	46.0	67.5	36.1	56.6	46.8	41.7	39.4	37.2
13:24	15 min	46.9	62.0	37.8	54.9	51.9	42.7	39.6	38.4



Night time survey

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	27/06/2015 01:54
Measurement Stop Time	27/06/2015 04:39
Measure Time	00d 03:00:00.



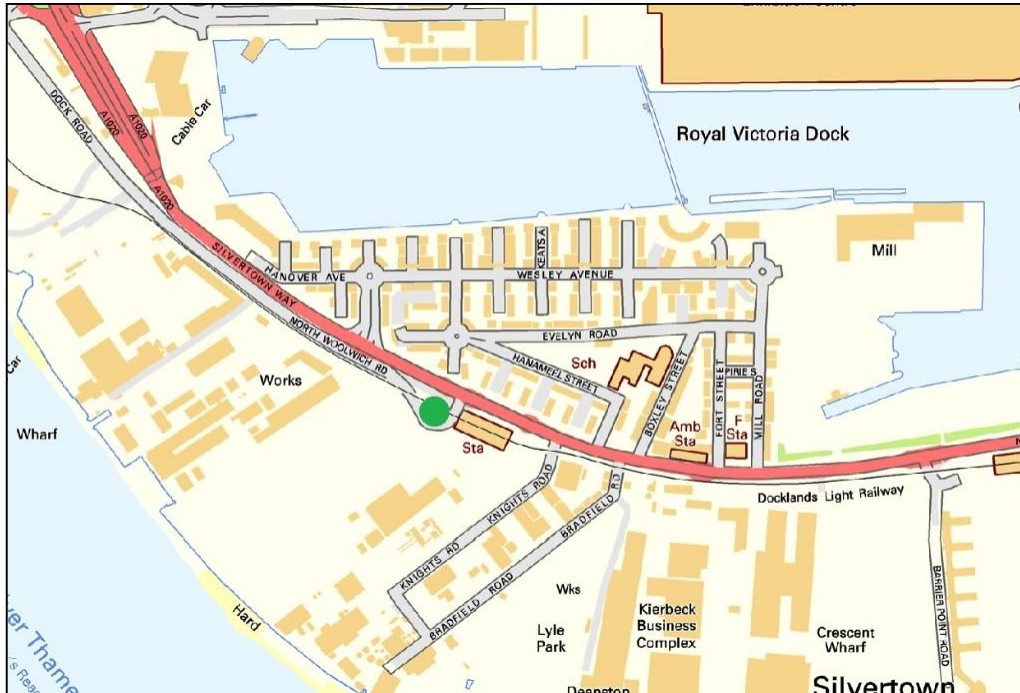
# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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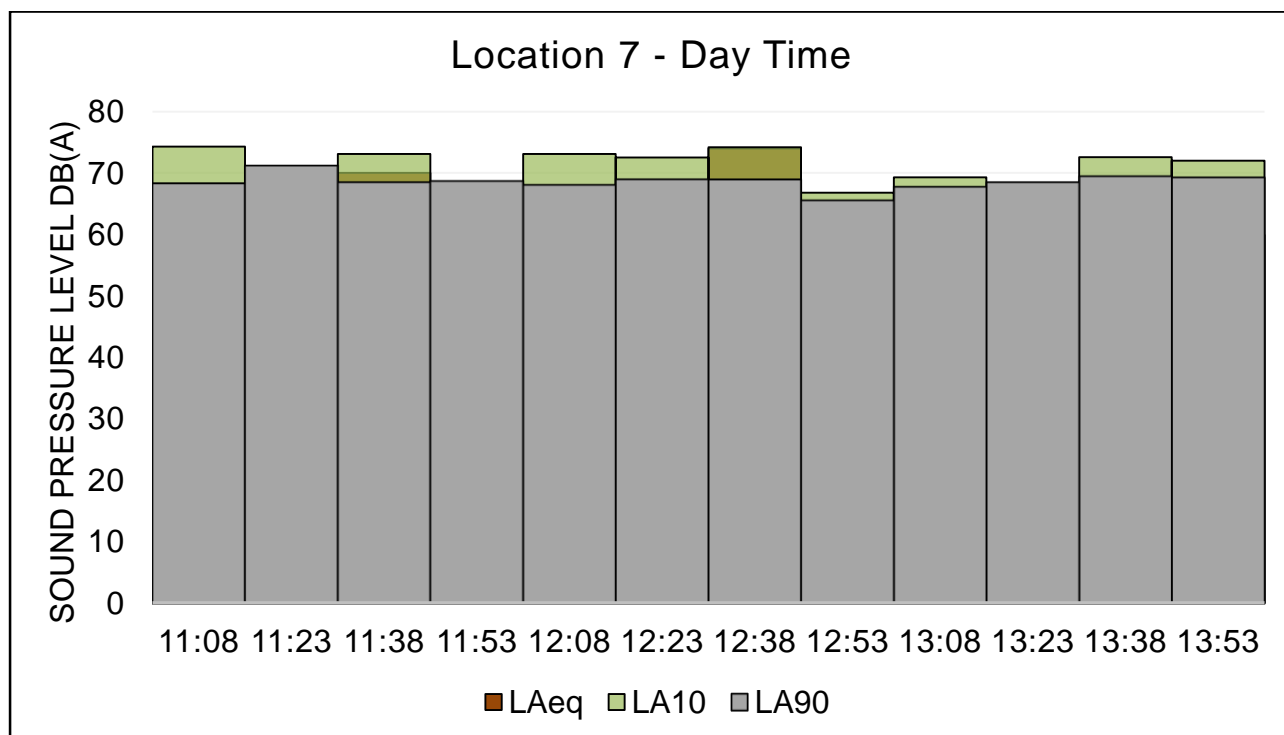
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
01:54	15 min	52.4	75.5	40.7	61.3	51.4	46.1	43.5	42.0
02:09	15 min	48.6	69.2	39.5	57.1	50.0	45.3	42.1	40.6
02:24	15 min	51.2	73.1	40.3	61.0	51.5	45.9	42.6	41.1
02:39	15 min	49.8	72.4	41.8	55.6	50.3	46.3	44.0	42.7
02:54	15 min	48.8	67.8	40.0	57.1	50.7	45.8	42.8	41.3
03:09	15 min	47.7	62.6	41.4	55.2	50.4	46.0	43.5	42.4
03:24	15 min	54.9	76.7	42.3	68.3	52.2	46.6	44.8	43.4
03:39	15 min	55.5	81.8	42.0	62.9	51.8	48.0	45.2	42.8
03:54	15 min	48.7	78.1	39.9	56.0	48.9	44.2	41.9	40.9
04:09	15 min	47.8	62.4	37.1	56.7	52.6	42.4	39.9	38.0
04:24	15 min	48.5	67.7	38.1	59.1	49.9	43.2	40.9	39.7
04:39	15 min	46.7	62.0	38.3	54.6	49.7	44.7	41.2	39.1

## 7. LOCATION 7



### DAY TIME SURVEY

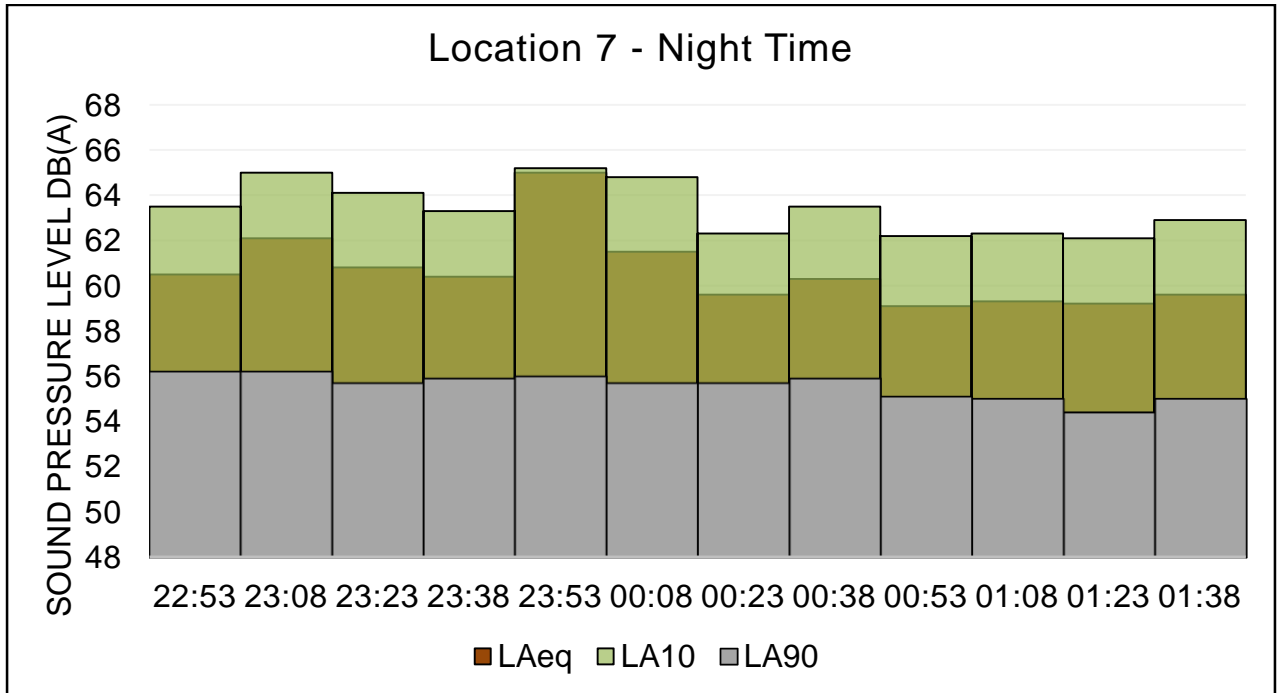
Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leg Calculation Interval	15 m
Measurement Start Time	17/06/2015 13:57
Measurement Stop Time	17/06/2015 16:57
Measure Time	00d 03:00:00.



Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
11:08	15 min	67.3	84.6	66.4	67.9	74.3	72.9	68.2	66.7
11:23	15 min	62.1	70	70.5	57.3	67.9	73.2	71.1	70.4
11:38	15 min	70	87.4	65.9	71.8	73.1	73.3	68.4	66.4
11:53	15 min	60.4	77.7	66.3	61.8	65.1	72.9	68.6	66.7
12:08	15 min	67.6	83.1	65.3	68.6	73.1	72.7	68	66.4
12:23	15 min	66	83.1	66.4	66.1	72.5	73.1	68.9	67.5
12:38	15 min	74	94.7	65.5	80	74.2	73.2	68.8	66.7
12:53	15 min	61.1	78.8	64.4	62	66.8	68.8	65.5	64.9
13:08	15 min	57.3	61.3	65.6	67.2	69.3	72	67.7	66.6
13:23	15 min	62.4	79.5	65.5	64.1	65.6	72.6	68.4	66.3
13:38	15 min	65.5	82.6	65.9	65.8	72.6	74.6	69.4	67.4
13:53	15 min	59.9	80.6	65.4	64.3	72	71.3	69.2	67.7

NIGHT TIME SURVEY

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	25/06/2015 22:53
Measurement Stop Time	26/06/2015 01:53
Measure Time	00d 03:00:02.



# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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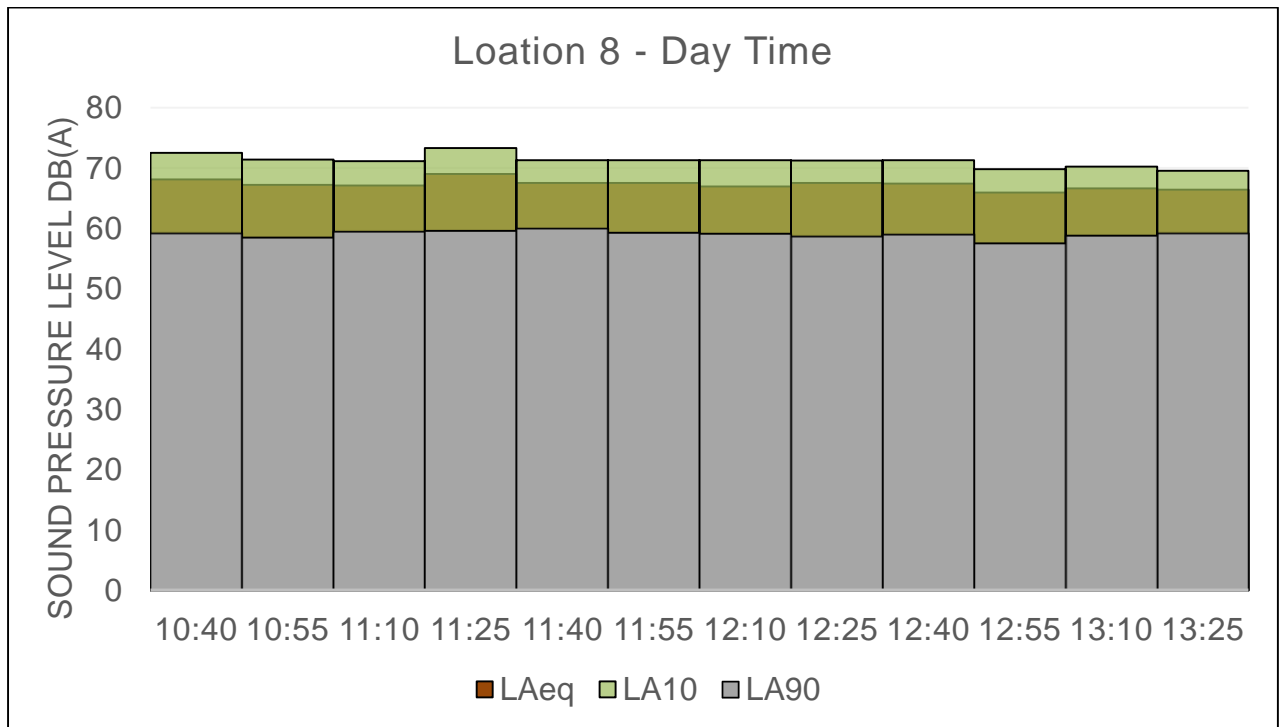
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
22:53	15 min	60.5	72.0	52.6	67.1	63.5	59	56.2	54.4
23:08	15 min	62.1	77.0	53.6	70.6	65.0	59.7	56.2	54.7
23:23	15 min	60.8	74.9	53.1	67.5	64.1	59.0	55.7	54.4
23:38	15 min	60.4	72.3	52.9	67.3	63.3	58.9	55.9	54.2
23:53	15 min	65.0	88.6	52.3	77.4	65.2	59.5	56.0	54.2
00:08	15 min	61.5	73.5	53.0	69.7	64.8	59.2	55.7	54.2
00:23	15 min	59.6	70.4	52.8	66.4	62.3	58.3	55.7	54.3
00:38	15 min	60.3	75.0	52.8	67.3	63.5	58.5	55.9	54.3
00:53	15 min	59.1	75.1	52.3	66.0	62.2	57.4	55.1	54.0
01:08	15 min	59.3	72.6	52.5	66.4	62.3	57.7	55.0	53.3
01:23	15 min	59.2	72.1	52.1	67.7	62.1	57.0	54.4	53.1
01:38	15 min	59.6	73.9	51.8	66.6	62.9	57.4	55.0	53.5

## 8. LOCATION 8



### DAY TIME SURVEY

Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	2015/07/27 10:40:00
Measurement Stop Time	2015/07/27 13:40:00
Measure Time	00d 3:00:00.

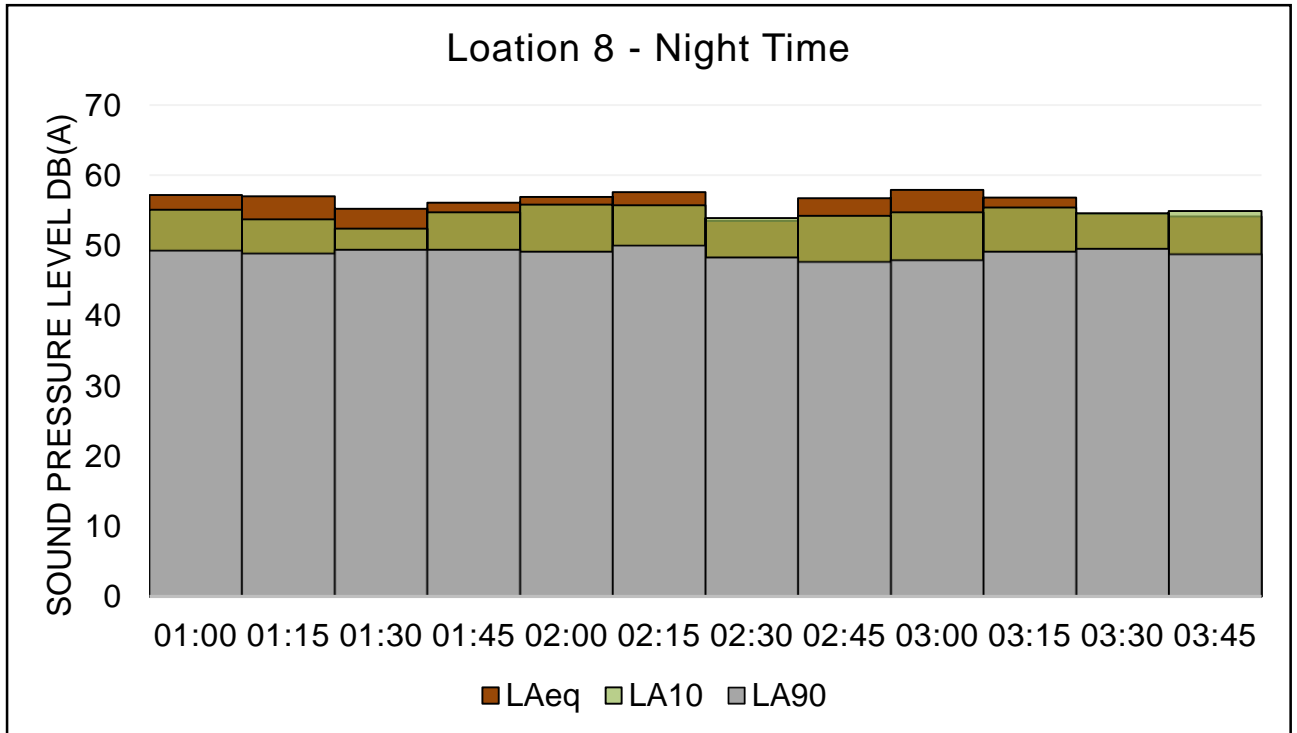


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
10:40	15 min	68.1	86.5	56.9	77.4	72.5	62.5	59.1	58.0
10:55	15 min	67.2	82.2	55.8	77.5	71.4	62.0	58.4	57.0
11:10	15 min	67.1	83.0	56.6	76.7	71.1	62.6	59.4	57.9
11:25	15 min	69.0	84.2	57.3	79.4	73.3	63.6	59.5	58.3
11:40	15 min	67.5	84.1	56.0	76.9	71.3	63.7	59.9	57.5
11:55	15 min	67.5	82.3	56.6	77.2	71.3	63.1	59.2	57.5
12:10	15 min	66.9	82.8	55.2	77.0	71.3	62.1	59.0	56.5
12:25	15 min	67.5	83.6	56.0	78.3	71.2	62.2	58.6	57.1
12:40	15 min	67.4	82.9	56.6	77.2	71.3	62.6	58.9	57.3
12:55	15 min	65.9	81.3	54.6	76.4	69.8	60.5	57.4	55.8
13:10	15 min	66.6	83.2	56.6	77.4	70.2	61.6	58.7	57.5
13:25	15 min	66.4	82.1	55.2	77.6	69.5	61.8	59.1	57.2



NIGHT TIME

Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	2015/08/03 01:00:00
Measurement Stop Time	2015/08/03 04:00:00
Measure Time	00d 3:00:00.



# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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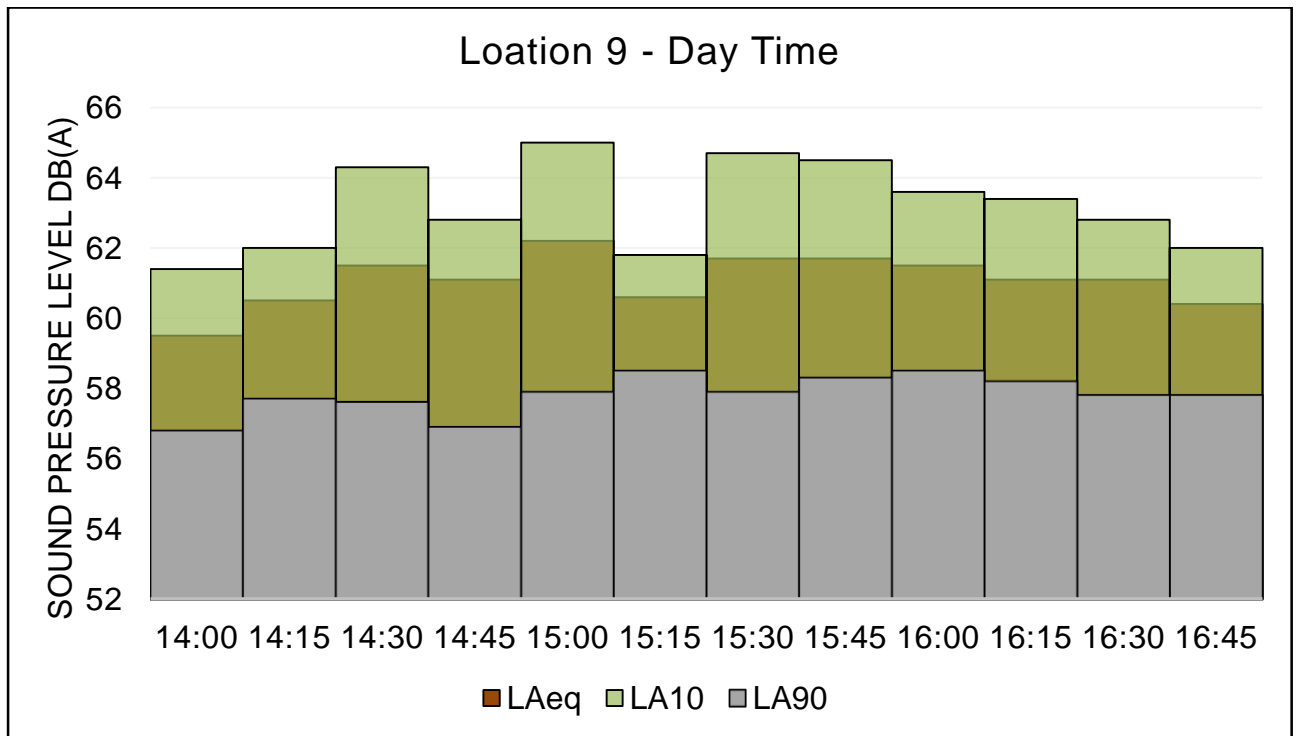
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
01:00	15 min	57.2	77.8	47.0	71.3	55.1	50.9	49.3	48.0
01:15	15 min	57.0	79.0	46.4	70.7	53.7	50.5	48.9	47.6
01:30	15 min	55.2	80.3	46.9	61.2	52.4	50.8	49.4	48.2
01:45	15 min	56.1	77.3	46.7	67.4	54.7	51.1	49.4	48.3
02:00	15 min	56.9	80.8	46.1	68.4	55.8	51.2	49.1	47.5
02:15	15 min	57.6	79.6	47.9	70.3	55.7	52.0	50.0	49.0
02:30	15 min	53.5	74.7	44.5	63.1	53.9	50.8	48.3	46.1
02:45	15 min	56.7	76.8	44.5	71.0	54.2	50.5	47.7	45.9
03:00	15 min	57.9	79.9	45.7	71.9	54.7	49.9	47.9	46.8
03:15	15 min	56.8	77.8	46.7	70.0	55.4	51.4	49.1	47.8
03:30	15 min	54.5	77.2	47.0	62.5	54.6	51.6	49.5	48.4
03:45	15 min	54.1	73.9	45.9	64.5	54.9	51.2	48.8	47.1

## 9. LOCATION 9



### DAY TIME SURVEY

Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	2015/07/27 14:00:37
Measurement Stop Time	2015/07/27 17:00:37
Measure Time	00d 3:00:00.

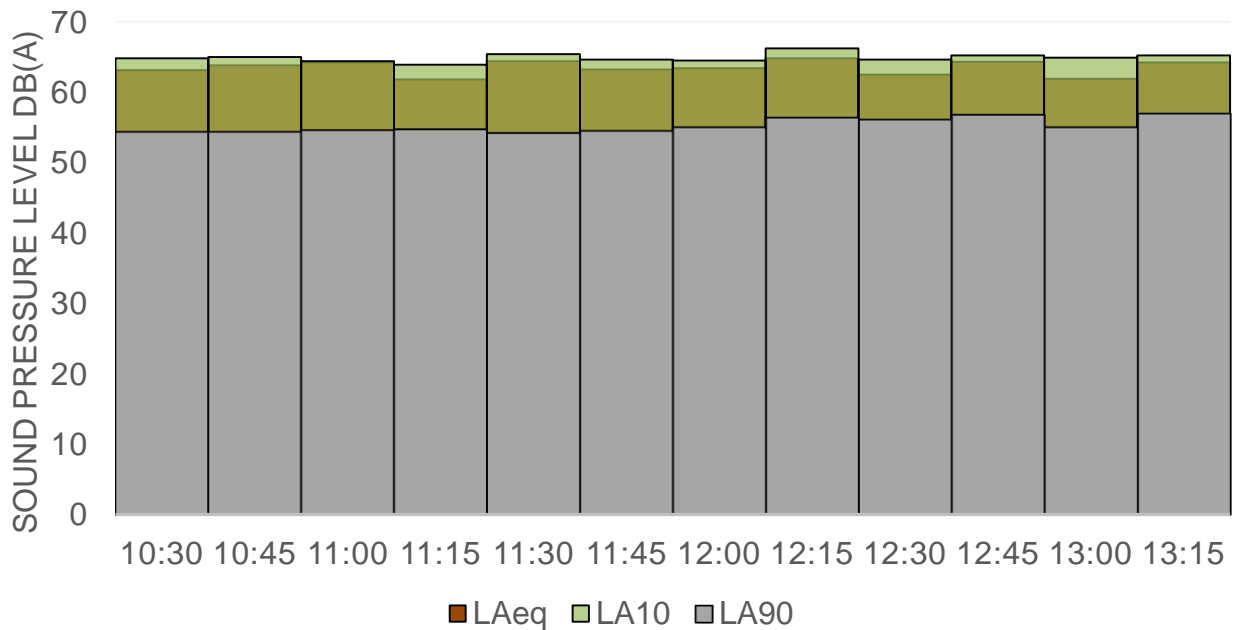


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
14:00	15 min	59.5	75.7	54.7	65.6	61.4	58.7	56.8	55.8
14:15	15 min	60.5	75.8	55.9	68.0	62.0	59.3	57.7	56.8
14:30	15 min	61.5	74.5	54.9	69.6	64.3	59.4	57.6	56.3
14:45	15 min	61.1	84.3	54.7	69.4	62.8	59.0	56.9	55.9
15:00	15 min	62.2	76.1	54.9	70.4	65.0	60.3	57.9	56.3
15:15	15 min	60.6	80.3	56.4	67.5	61.8	59.8	58.5	57.6
15:30	15 min	61.7	79.1	55.9	69.3	64.7	59.5	57.9	57.1
15:45	15 min	61.7	79.9	56.1	69.0	64.5	60.0	58.3	57.3
16:00	15 min	61.5	72.8	56.5	68.6	63.6	60.3	58.5	57.6
16:15	15 min	61.1	75.6	56.4	67.4	63.4	59.9	58.2	57.3
16:30	15 min	61.1	75.2	55.3	69.7	62.8	59.6	57.8	56.5
16:45	15 min	60.4	76.0	55.7	67.3	62.0	59.4	57.8	56.7

NIGHT TIME SURVEY

Serial Number	34936366
Type	NA-28
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	110
Output Level Range Lower	20
Leq Calculation Interval	15
Measurement Start Time	2015/07/27 14:00:37
Measurement Stop Time	2015/07/27 17:00:37
Measure Time	00d 3:00:00.

Loation 9 - Night Time



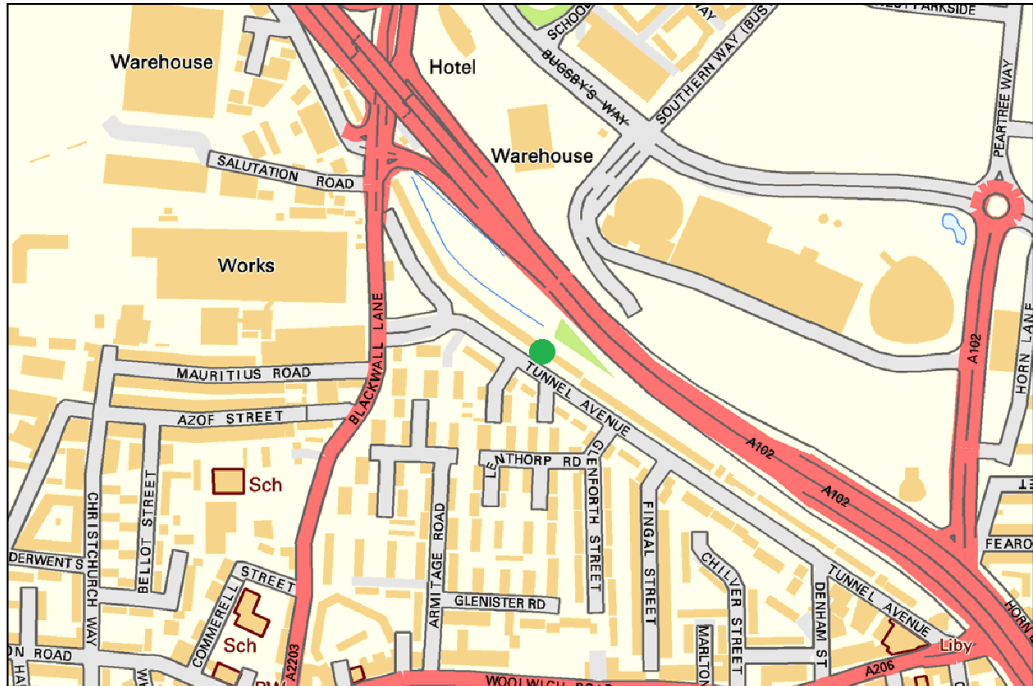
# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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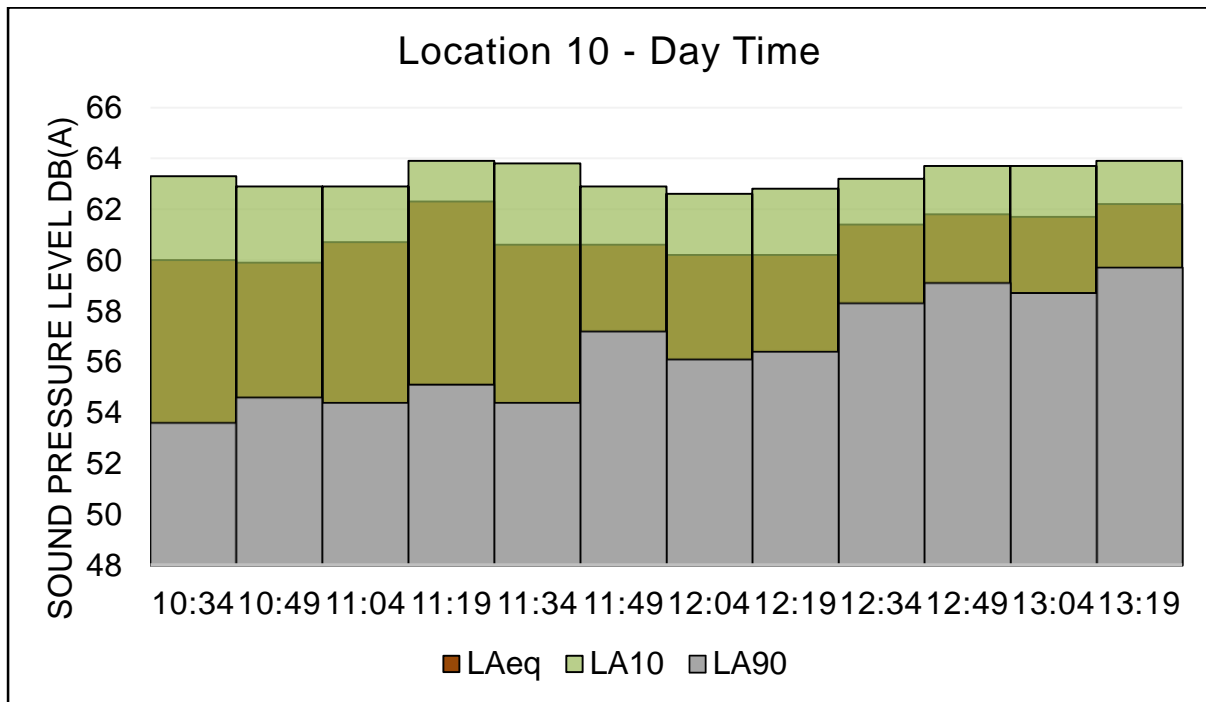
	LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
15 min	51.1	59.2	44.8	56.1	53.6	50.4	47.6	46.0
15 min	50.1	59.6	44.1	54.3	52.3	49.6	47.0	45.5
15 min	49.7	58.4	43.9	54.8	52.3	48.9	46.6	45.0
15 min	49.7	57.8	42.7	54.3	51.6	49.4	47.0	44.3
15 min	49.4	57.6	42.0	54.1	51.7	48.8	46.2	43.4
15 min	48.3	58.7	41.8	53.8	50.5	47.6	44.9	43.1
15 min	48.2	58.6	41.5	52.5	50.3	47.8	45.2	43.2
15 min	48.0	61.1	39.0	53.1	50.2	47.4	44.7	41.3
15 min	48.3	56.4	42.3	53.1	50.6	47.6	45.2	43.8
15 min	48.7	57.5	41.7	54.4	51.2	48.0	44.6	42.7
15 min	48.7	60.2	42.4	53.5	51.0	48.1	45.5	43.9
15 min	48.5	57.7	41.2	53.4	50.6	48.0	44.9	43.1

## 10. LOCATION 10



### DAY TIME SURVEY

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	18/06/2015 10:34
Measurement Stop Time	18/06/2015 13:34
Measure Time	00d 03:00:00.

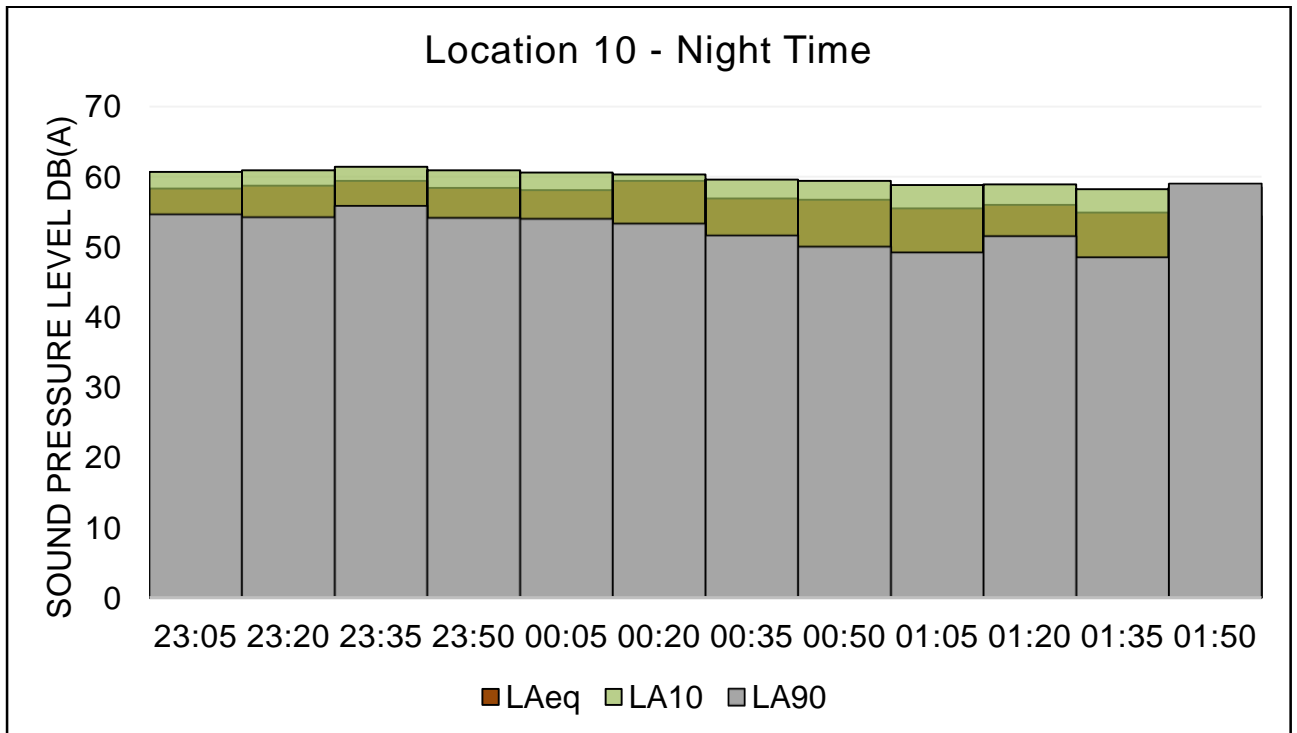


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
10:34	15 min	60.0	73.8	51.0	68.8	63.3	57.3	53.6	52.5
10:49	15 min	59.9	72.9	51.2	68.4	62.9	57.9	54.6	52.6
11:04	15 min	60.7	76.4	51.9	71.4	62.9	57.7	54.4	53.1
11:19	15 min	62.3	82.9	51.6	71.7	63.9	60.5	55.1	52.7
11:34	15 min	60.6	77.6	51.1	67.5	63.8	58.8	54.4	52.6
11:49	15 min	60.6	68.7	51.3	64.9	62.9	60.1	57.2	53.6
12:04	15 min	60.2	73.0	51.3	66.8	62.6	59.3	56.1	53.4
12:19	15 min	60.2	69.7	51.7	66.4	62.8	59.3	56.4	54.0
12:34	15 min	61.4	73.2	53.6	65.1	63.2	61.1	58.3	56.3
12:49	15 min	61.8	70.5	55.4	66.6	63.7	61.3	59.1	57.2
13:04	15 min	61.7	79.1	55.5	67.1	63.7	61.0	58.7	57.0
13:19	15 min	62.2	71.6	55.8	66.4	63.9	61.8	59.7	57.9



NIGHT TIME SURVEY

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	23/06/2015 23:05
Measurement Stop Time	24/06/2015 02:05
Measure Time	00d 03:00:00.



# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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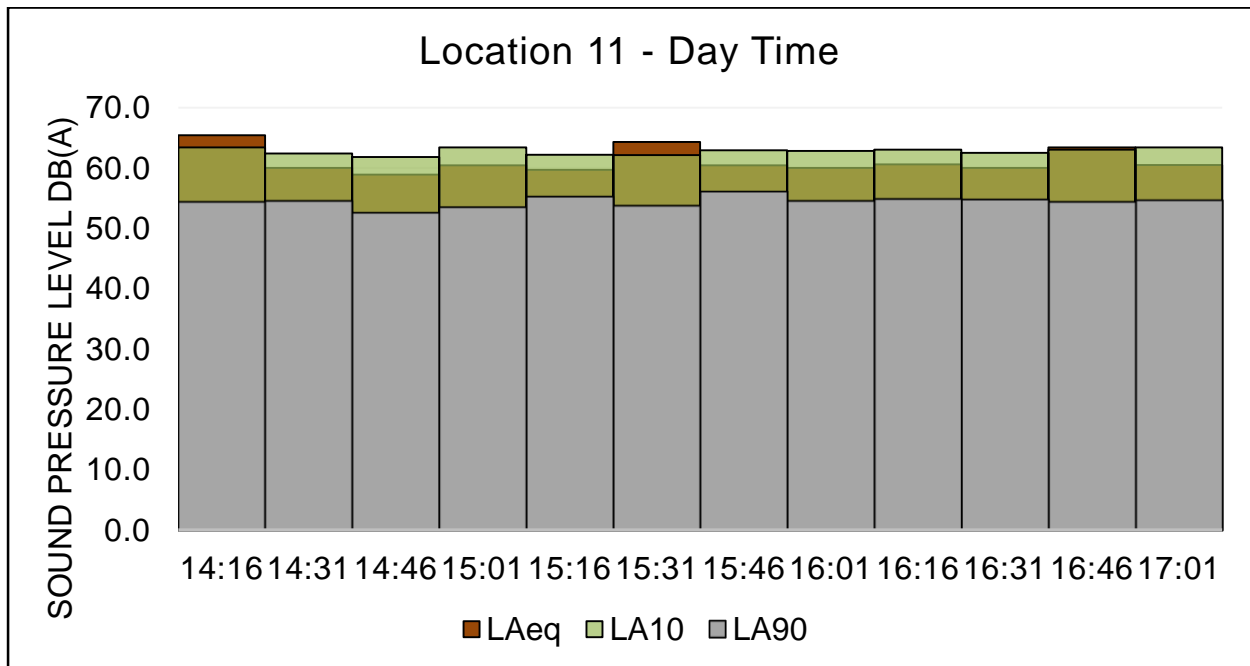
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
23:05	15 min	58.3	68	49.5	62.8	60.7	57.7	54.6	52.1
23:20	15 min	58.7	75.1	49.5	64.5	60.9	57.9	54.2	51
23:35	15 min	59.4	71	51.3	66.8	61.4	58.5	55.8	53.9
23:50	15 min	58.4	68.2	50.1	63.2	60.9	57.9	54.1	51.6
00:05	15 min	58.1	70.2	49.9	62.7	60.6	57.6	54	51.3
00:20	15 min	59.4	91.2	46.8	62.4	60.3	57.3	53.3	49.2
00:35	15 min	56.9	68.2	46.1	62.3	59.6	56	51.6	48.1
00:50	15 min	56.7	81.5	41.3	62.8	59.4	55.2	50	44
01:05	15 min	55.5	63.6	44.9	61.2	58.8	54.3	49.2	46.2
01:20	15 min	56	65.8	46.3	61.3	58.9	55.3	51.5	48.2
01:35	15 min	54.9	65.7	42.2	60.9	58.2	53.7	48.5	45.1
01:50	15 min	54.4	67.8	43	69.3	58.5	54.3	59	44

## 11. LOCATION 11



### DAY TIME SURVEY

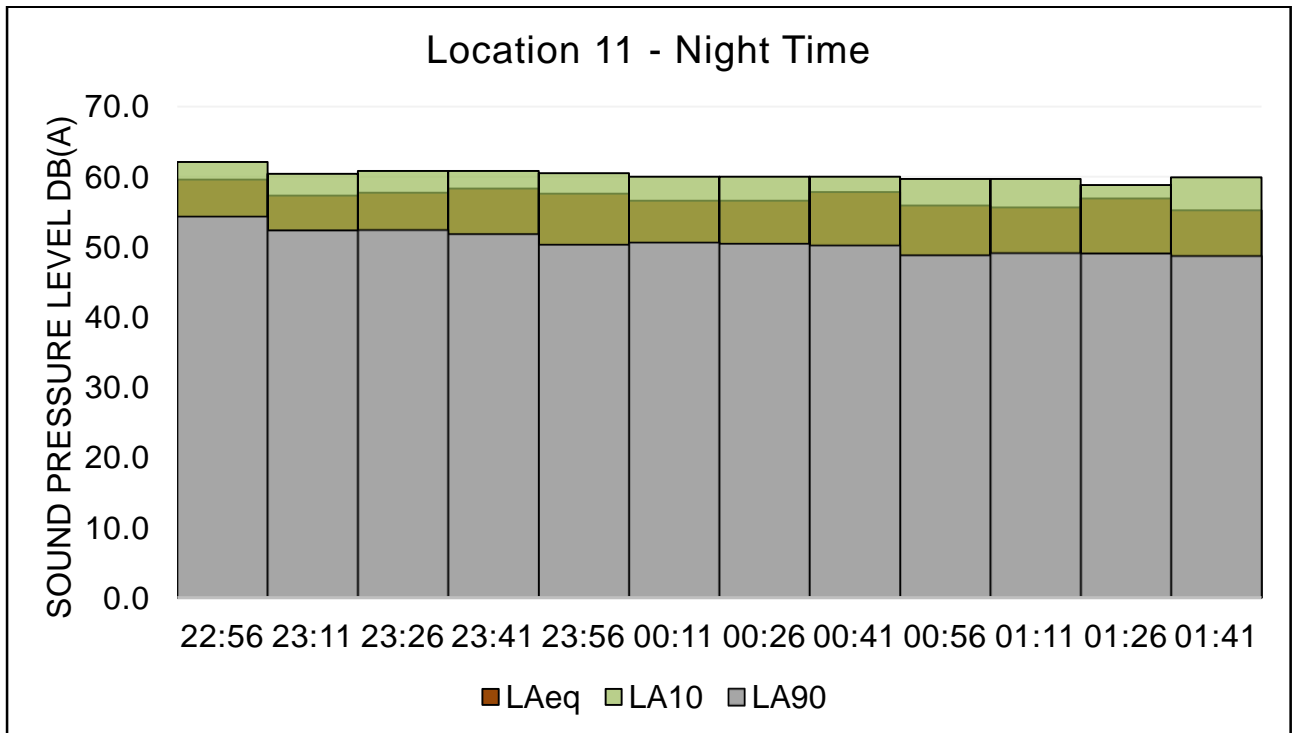
Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	18/06/2015 14:16
Measurement Stop Time	18/06/2015 17:16
Measure Time	00d 03:00:00.



Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
14:16	15 min	65.4	91.2	48.9	77.0	63.4	58.8	54.3	50.5
14:31	15 min	60.0	77.9	50.5	66.6	62.4	58.8	54.5	51.9
14:46	15 min	58.9	70.9	48.2	65.6	61.8	57.8	52.5	49.6
15:01	15 min	60.4	74.5	46.6	68.8	63.4	58.8	53.4	48.1
15:16	15 min	59.7	75.0	51.0	66.4	62.2	58.8	55.2	52.7
15:31	15 min	64.3	88.5	49.8	74.3	62.1	58.4	53.7	50.8
15:46	15 min	60.4	72.2	50.7	67.3	62.9	59.4	56.0	52.3
16:01	15 min	60.0	72.1	49.0	65.8	62.8	59.0	54.5	51.9
16:16	15 min	60.6	77.7	50.3	67.2	63.0	59.7	54.8	52.0
16:31	15 min	60.0	76.7	49.2	67.3	62.5	58.8	54.7	51.0
16:46	15 min	63.4	88.1	49.0	73.3	63.0	59.0	54.3	51.0
17:01	15 min	60.5	75.3	46.0	66.8	63.4	59.3	54.6	49.8
17:16	15 min	55.9	56.4	55.4	56.1	56.1	55.9	55.7	55.6

Night time survey

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	18/06/2015 22:56
Measurement Stop Time	19/06/2015 01:56
Measure Time	00d 03:00:00.



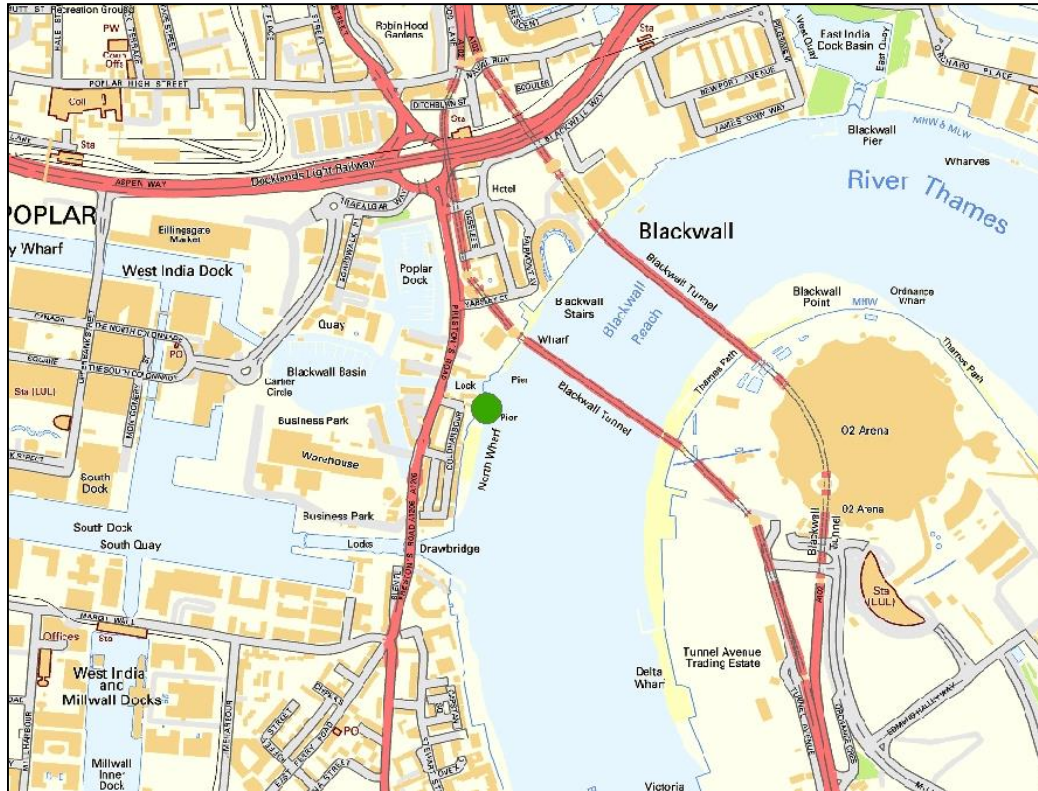
# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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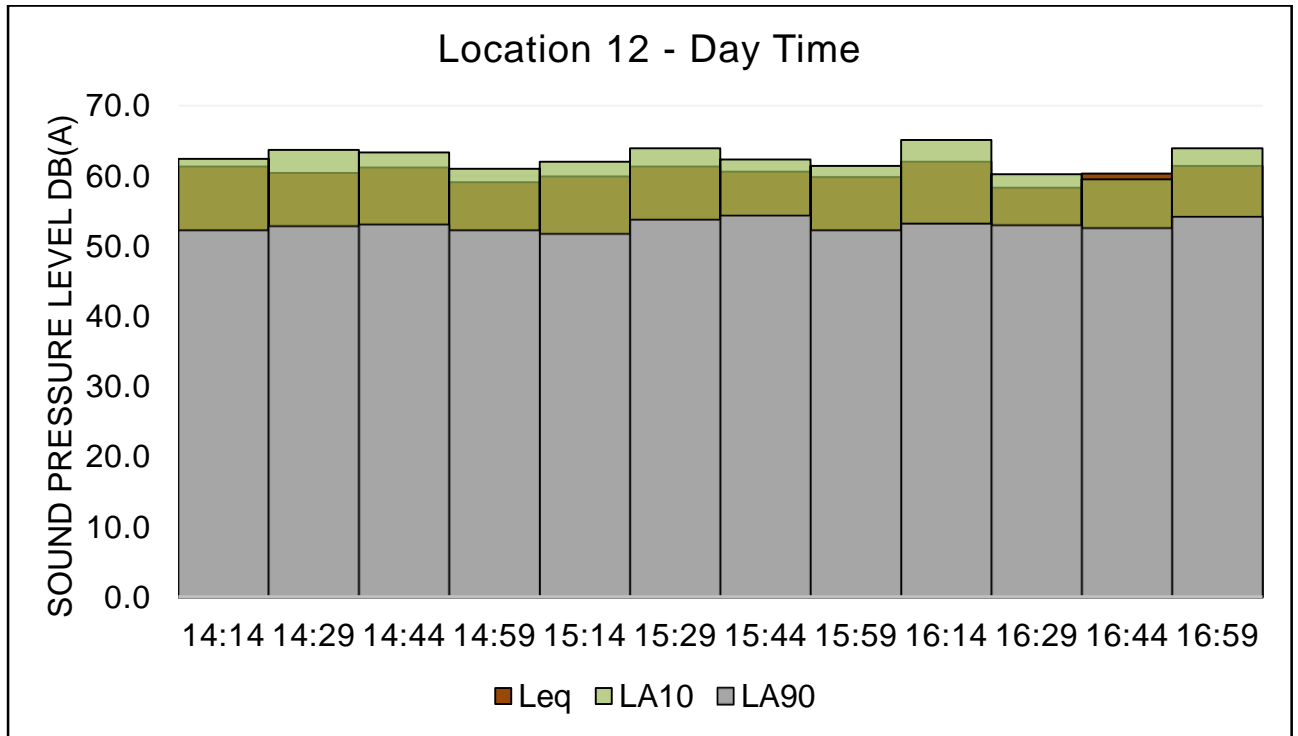
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
22:56	15 min	59.6	74.5	49.4	67.2	62.1	58.2	54.3	51.1
23:11	15 min	57.3	66.8	48.4	63.1	60.4	56.2	52.3	49.8
23:26	15 min	57.7	68.2	49.2	63.9	60.8	56.5	52.4	50.4
23:41	15 min	58.3	80.6	48.2	65.3	60.8	55.6	51.8	49.6
23:56	15 min	57.6	78.7	46.2	65.3	60.5	55.1	50.3	47.6
00:11	15 min	56.6	68.6	47.2	63.4	60.0	54.8	50.6	48.4
00:26	15 min	56.6	72.3	47.3	63.9	60.0	54.5	50.4	48.6
00:41	15 min	57.8	79.2	45.4	65.4	60.0	54.4	50.2	47.3
00:56	15 min	55.9	67.3	45.3	64.0	59.7	53.1	48.8	46.9
01:11	15 min	55.6	72.3	45.8	63.3	59.7	52.9	49.1	47.4
01:26	15 min	56.9	69.6	44.9	66.1	58.8	53.8	49.0	47.0
01:41	15 min	55.2	69.3	45.7	65.3	59.9	52.8	48.7	46.4

## 12. LOCATION 12



### DAY TIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	16/06/2015 14:14
Measurement Stop Time	16/06/2015 17:18
Measure Time	00d 03:03:58.1

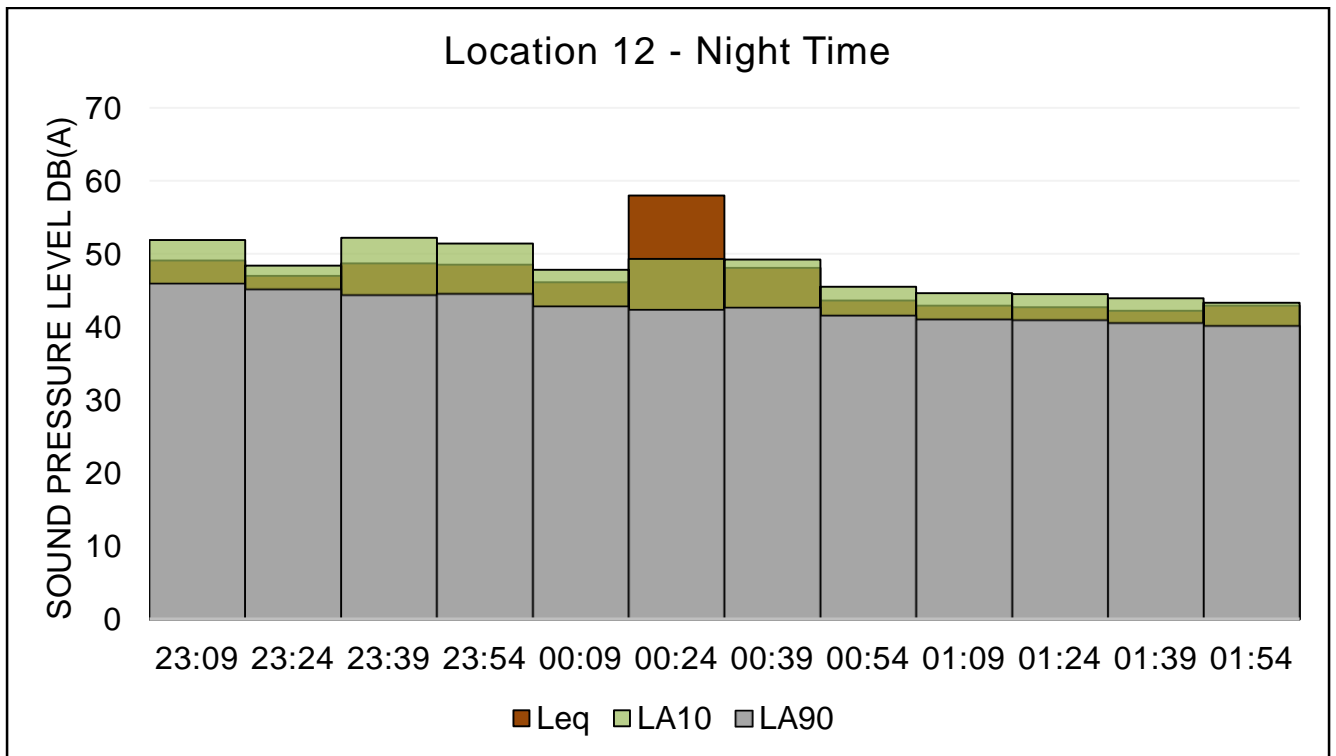


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
14:14	15 min	61.3	77.9	49.7	74.1	62.4	55.0	52.2	50.8
14:29	15 min	60.4	78.2	49.3	71.0	63.7	56.1	52.8	50.8
14:44	15 min	61.2	80.5	50.0	72.7	63.3	56.5	53.0	51.5
14:59	15 min	59.1	77.1	50.6	70.7	61.0	54.1	52.2	51.4
15:14	15 min	59.9	79.2	49.8	71.9	62.0	55.3	51.7	50.7
15:29	15 min	61.3	77.8	51.2	73.1	63.9	56.5	53.7	52.2
15:44	15 min	60.6	79.2	52.4	72.3	62.3	56.5	54.3	53.4
15:59	15 min	59.8	77.0	50.3	72.5	61.4	54.2	52.2	51.2
16:14	15 min	62.0	79.3	50.9	73.6	65.1	55.9	53.1	52.0
16:29	15 min	58.3	76.4	50.8	69.6	60.2	55.0	52.9	51.8
16:44	15 min	60.3	78.5	50.3	72.7	59.5	55.6	52.5	51.3
16:59	15 min	61.4	76.7	51.9	72.1	63.9	57.0	54.1	52.9
17:14	15 min	65.8	79.6	50.7	76.0	71.6	53.9	52.2	51.5



NIGHT TIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	16/06/2015 23:09
Measurement Stop Time	17/06/2015 02:09
Measure Time	00d 03:00:00.0



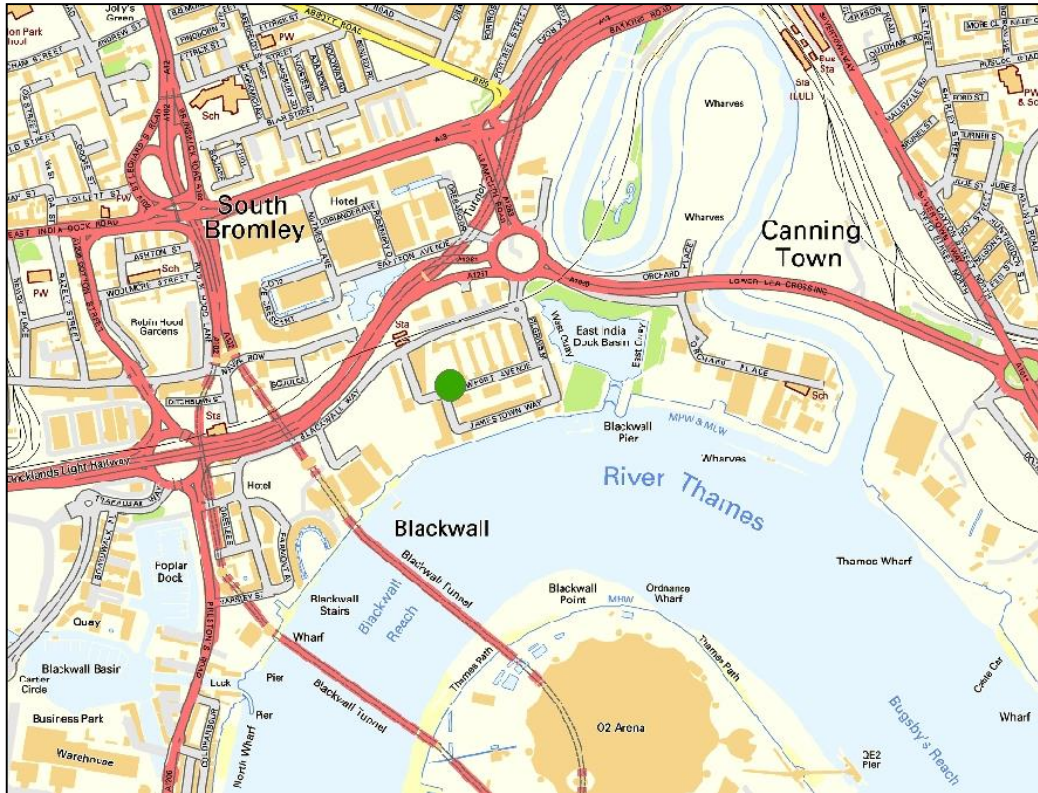
# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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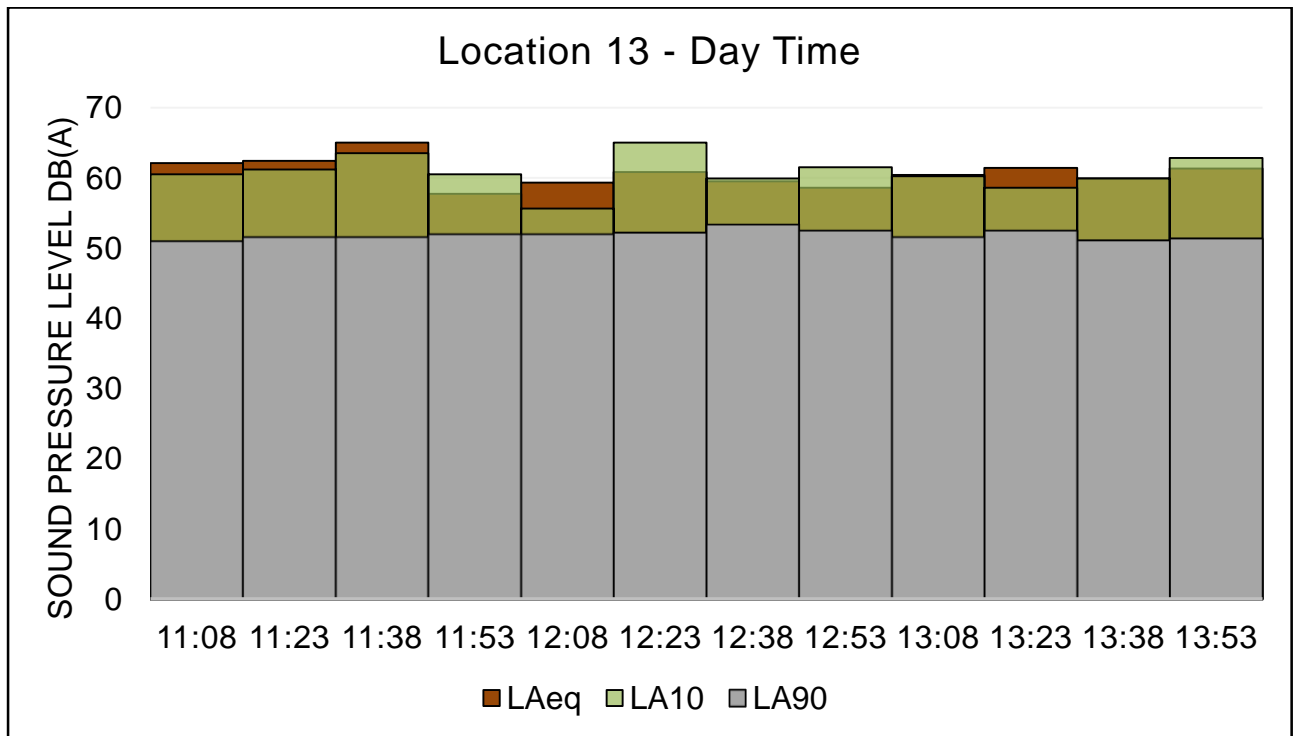
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
23:09	15 min	49.1	73.6	43.5	54.9	51.9	47.5	45.9	44.8
23:24	15 min	47.0	54.9	43.4	52.2	48.4	46.4	45.1	44.4
23:39	15 min	48.7	60.5	42.5	57.5	52.2	45.9	44.3	43.4
23:54	15 min	48.5	58.2	42.7	55.5	51.4	46.9	44.5	43.4
00:09	15 min	46.1	66.0	41.0	51.6	47.8	44.7	42.8	41.8
00:24	15 min	58.0	79.6	40.2	73.0	49.3	44.2	42.3	41.3
00:39	15 min	48.1	64.0	40.3	59.0	49.2	44.7	42.6	41.3
00:54	15 min	43.6	53.1	40.1	48.7	45.5	42.8	41.5	40.8
01:09	15 min	42.9	49.6	39.7	46.5	44.6	42.5	41.0	40.3
01:24	15 min	42.7	53.7	39.4	47.8	44.5	42.0	40.9	40.2
01:39	15 min	42.2	48.8	39.0	46.7	43.9	41.7	40.5	39.9
01:54	15 min	42.9	68.0	38.3	47.2	43.3	41.1	40.1	39.3

### 13. LOCATION 13



#### DAY TIME SURVEY

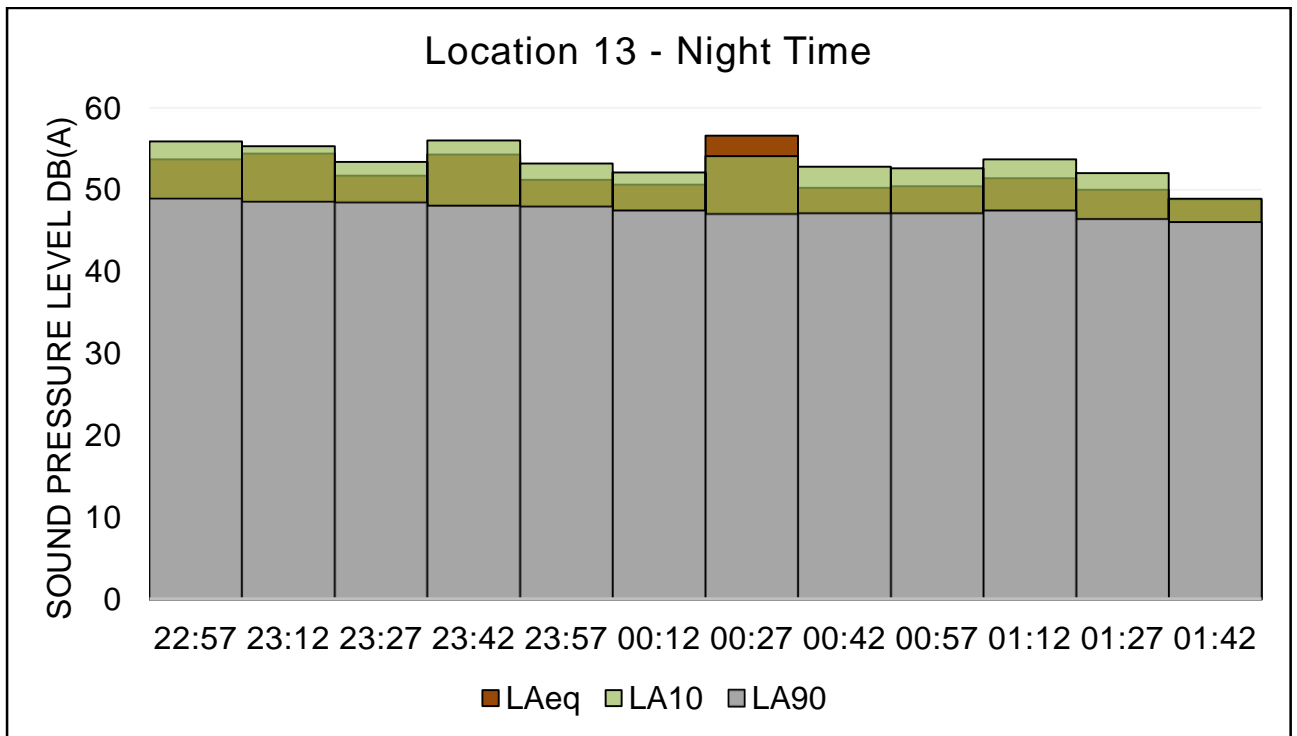
Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	19/06/2015 11:08
Measurement Stop Time	19/06/2015 13:53
Measure Time	00d 03:00:00.



Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
11:08	15 min	59.6	74.5	49.4	67.2	62.1	58.2	54.3	51.1
11:23	15 min	57.3	66.8	48.4	63.1	60.4	56.2	52.3	49.8
11:38	15 min	57.7	68.2	49.2	63.9	60.8	56.5	52.4	50.4
11:53	15 min	58.3	80.6	48.2	65.3	60.8	55.6	51.8	49.6
12:08	15 min	57.6	78.7	46.2	65.3	60.5	55.1	50.3	47.6
12:23	15 min	56.6	68.6	47.2	63.4	60.0	54.8	50.6	48.4
12:38	15 min	56.6	72.3	47.3	63.9	60.0	54.5	50.4	48.6
12:53	15 min	57.8	79.2	45.4	65.4	60.0	54.4	50.2	47.3
13:08	15 min	55.9	67.3	45.3	64.0	59.7	53.1	48.8	46.9
13:23	15 min	55.6	72.3	45.8	63.3	59.7	52.9	49.1	47.4
13:38	15 min	56.9	69.6	44.9	66.1	58.8	53.8	49.0	47.0
13:53	15 min	55.2	69.3	45.7	65.3	59.9	52.8	48.7	46.4

NIGHT TIME SURVEY

Serial Number	00451268
Type	NL-32
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	16/06/2015 22:57
Measurement Stop Time	17/06/2015 01:57
Measure Time	00d 03:00:00.



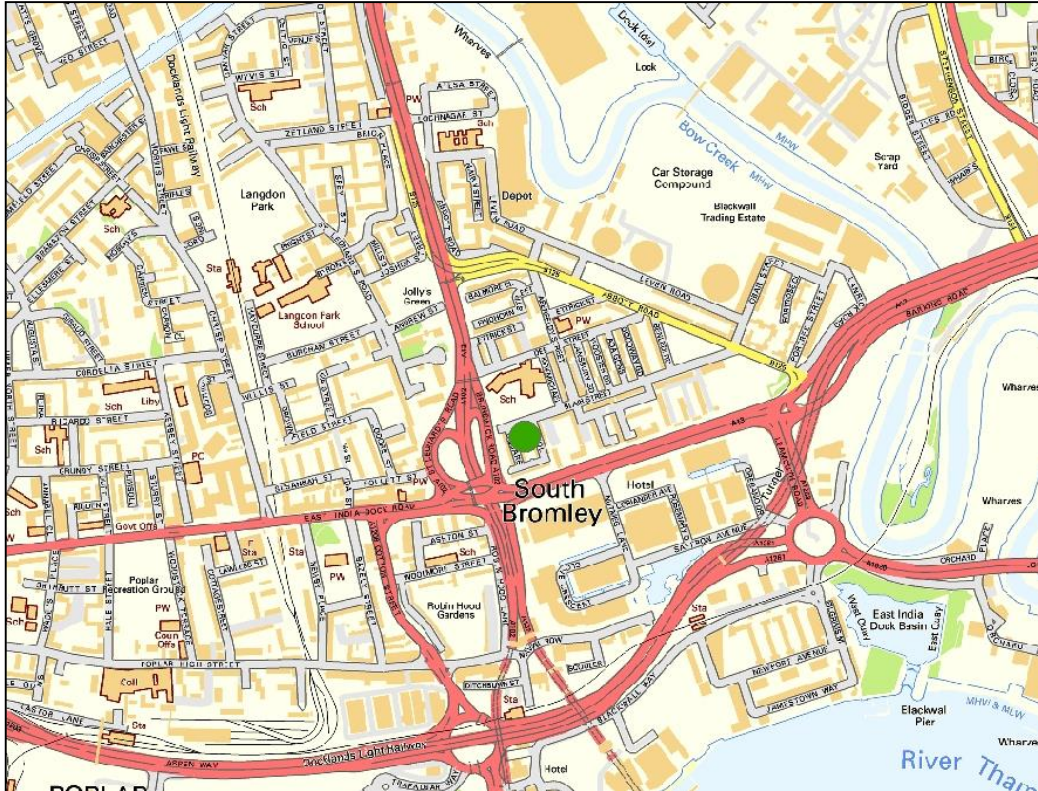
# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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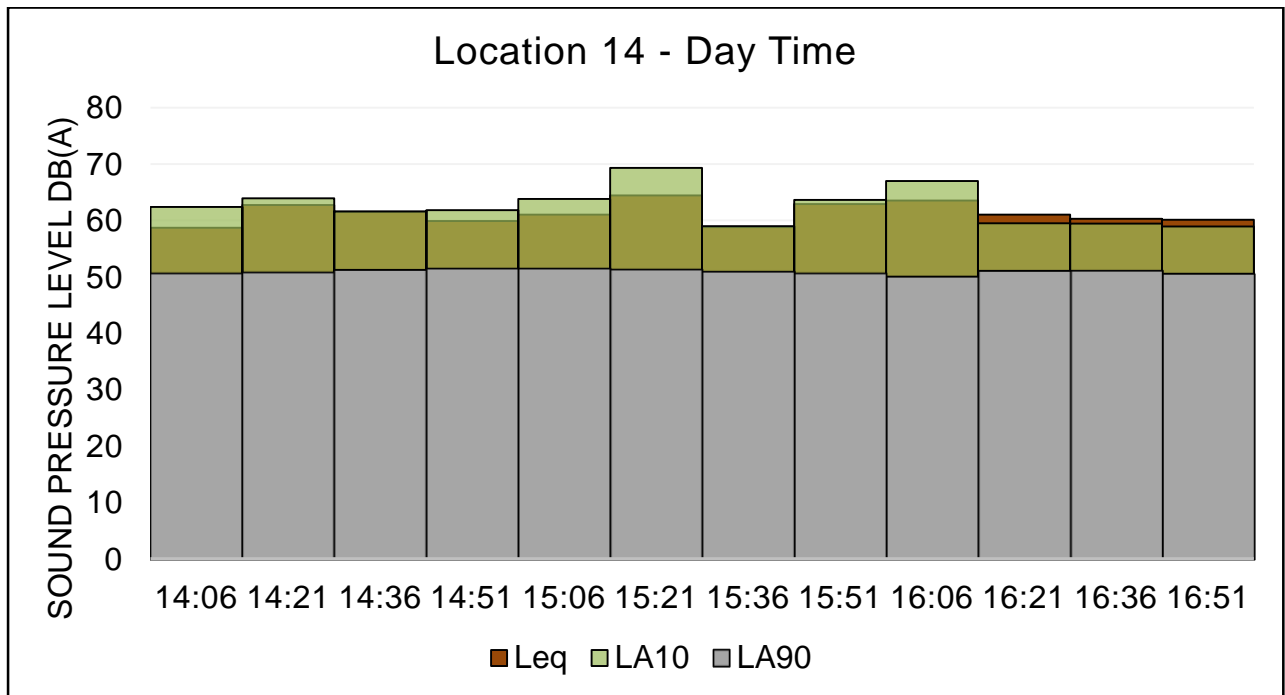
Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
22:57	15 min	53.7	70.0	46.6	63.2	55.9	51.2	48.9	47.9
23:12	15 min	54.4	76.8	46.9	62.9	55.3	50.7	48.5	47.7
23:27	15 min	51.7	69.1	46.1	60.3	53.4	49.9	48.4	47.1
23:42	15 min	54.3	75.7	45.7	65.1	56.0	49.8	48.0	46.8
23:57	15 min	51.2	67.2	45.6	59.8	53.2	49.4	47.9	46.6
00:12	15 min	50.6	65.6	45.6	60.5	52.1	48.7	47.4	46.6
00:27	15 min	56.6	77.4	45.4	71.3	54.1	49.0	47.0	46.1
00:42	15 min	50.2	63.9	45.0	56.4	52.8	49.0	47.1	46.0
00:57	15 min	50.4	63.1	44.8	57.5	52.6	48.9	47.1	46.2
01:12	15 min	51.4	69.6	44.7	59.3	53.7	49.7	47.4	46.3
01:27	15 min	50.0	66.8	43.9	59.3	52.0	48.1	46.4	45.3
01:42	15 min	48.8	69.6	44.3	54.8	48.9	46.9	46.0	45.4
01:57	15 min	48.2	55.5	45.4	52.8	49.6	48.0	46.5	45.6

## 14. LOCATION 14



### DAY TIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	18/06/2015 14:06
Measurement Stop Time	18/06/2015 17:07
Measure Time	00d 03:01:07.9

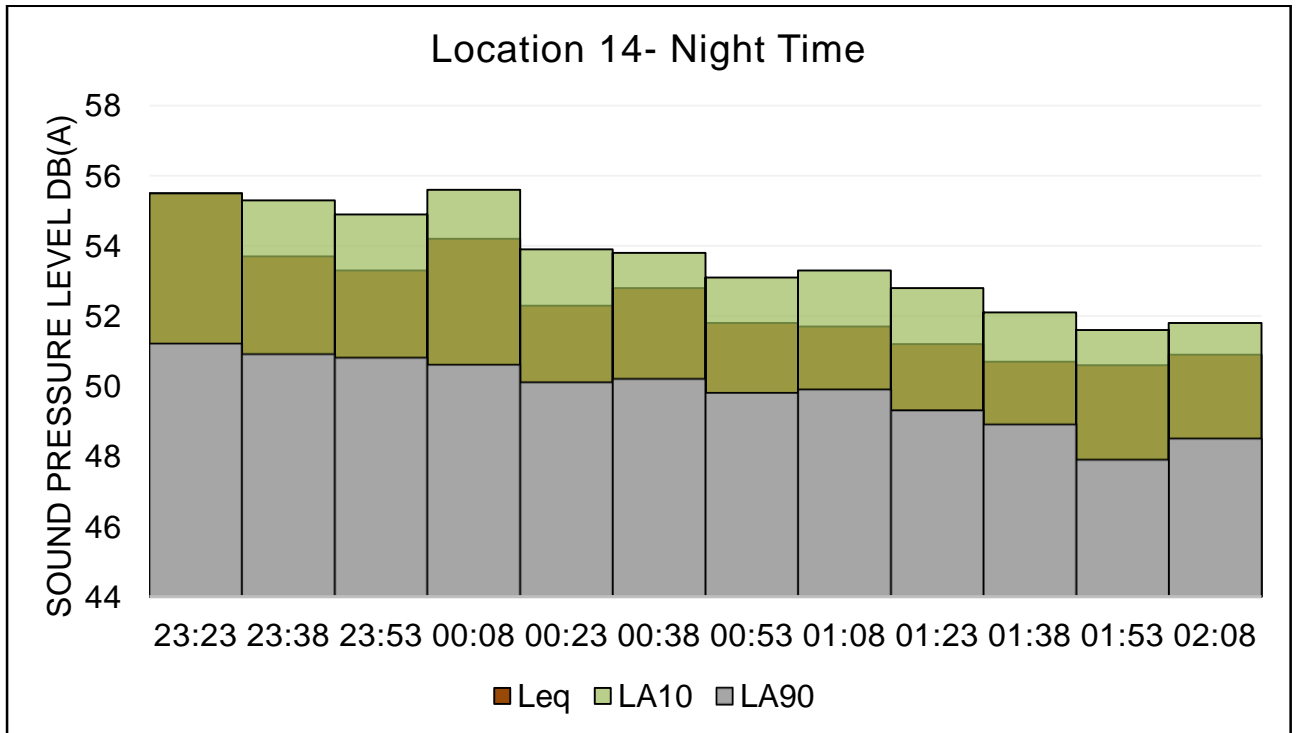


Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
14:06	15 min	58.7	75.8	47.8	68.7	62.4	54.3	50.6	49.0
14:21	15 min	62.7	83.8	48.7	75.3	63.9	52.8	50.8	49.7
14:36	15 min	61.5	83.0	49.3	74.6	61.6	53.0	51.2	50.2
14:51	15 min	59.9	78.5	49.8	72.8	61.8	53.6	51.5	50.5
15:06	15 min	61.0	78.8	49.5	73.3	63.8	53.8	51.5	50.5
15:21	15 min	64.4	78.6	49.0	75.7	69.3	53.9	51.3	50.3
15:36	15 min	58.8	82.1	48.9	71.1	59.0	53.5	50.9	49.8
15:51	15 min	62.9	80.4	48.6	75.6	63.6	53.4	50.6	49.6
16:06	15 min	63.5	80.6	48.1	75.7	67.0	51.7	50.0	49.1
16:21	15 min	61.0	81.4	49.2	75.4	59.5	52.9	51.0	50.1
16:36	15 min	60.3	81.2	48.9	73.4	59.4	53.3	51.1	50.1
16:51	15 min	60.1	79.9	48.9	74.5	58.9	52.6	50.5	49.5



NIGHT TIME SURVEY

Serial Number	1032449
Type	NL-52
Frequency Weighting	A
Time Weighting	F
Output Level Range Upper	130
Output Level Range Lower	20
Leq Calculation Interval	15 m
Measurement Start Time	17/06/2015 23:23
Measurement Stop Time	18/06/2015 02:23
Measure Time	00d 03:00:00.0



# Silvertown Tunnel Preliminary Environmental Information Report

## Appendix 14.A: Noise and Vibration Baseline Information

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Time		LAeq	Lmax	Lmin	LA01	LA10	LA50	LA90	LA99
23:23	15 min	55.5	76.7	48.9	64.6	55.5	52.8	51.2	50.0
23:38	15 min	53.7	66.7	48.7	61.6	55.3	52.6	50.9	49.7
23:53	15 min	53.3	69.5	49.2	59.9	54.9	52.5	50.8	49.9
00:08	15 min	54.2	70.8	48.5	63.7	55.6	52.5	50.6	49.5
00:23	15 min	52.3	70.5	47.0	55.8	53.9	51.7	50.1	48.4
00:38	15 min	52.8	66.7	47.9	61.1	53.8	51.7	50.2	49.0
00:53	15 min	51.8	62.3	47.9	55.6	53.1	51.6	49.8	48.8
01:08	15 min	51.7	62.1	48.3	55.1	53.3	51.4	49.9	49.1
01:23	15 min	51.2	59.8	47.2	55.4	52.8	50.9	49.3	48.2
01:38	15 min	50.7	59.5	47.0	53.7	52.1	50.3	48.9	47.9
01:53	15 min	50.6	58.7	46.9	53.4	51.6	50.1	47.9	47.1
02:08	15 min	50.9	59.3	47.6	54.0	51.8	50.4	48.5	47.5