

Environmental Impact Assessment Report


Appendix 12.1

Volume 3 Part 7



Appendix 12.1

Noise Survey Data for Noise Monitoring A-NML1

Noise Monitoring A-NML1 (Coastguard Cottages) – Daytime – 1 st June 2023					
Map of Noise Monitoring Location			Photo of Noise Monitoring Location		
					
Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
09:32 – 09:47	58.9	77.6	51.4	60.4	54.5
09:47 – 10:02	58.7	75.7	52.3	61.1	54.6
10:02 – 10:17	59.2	74.8	53.2	61.1	54.7
10:17 – 10:32	59.5	81.9	52.3	58.3	53.3
10:32 – 10:47	56.4	73.8	50.1	58.1	52.1
10:47 – 11:02	58.6	77.8	50.6	56.6	51.7
11:02 – 11:17	58.1	75.4	49.8	60.1	52.7
11:17 – 11:32	57.4	77.0	49.9	58.5	51.0
11:32 – 11:47	57.8	72.6	51.0	60.3	53.7
11:47 – 12:02	62.3	79.1	51.0	64.9	53.5
12:02 – 12:17	60.1	77.0	52.1	60.8	54.8
12:17 – 12:32	59.7	79.4	51.5	61.2	54.1
12:32 – 12:47	59.0	75.6	51.7	60.2	54.4
12:47 – 13:02	58.1	73.6	53.0	60.2	54.4
13:02 – 13:17	59.1	75.4	51.1	61.3	53.3
13:17 – 13:32	60.8	77.6	51.6	61.8	54.2
13:32 – 13:47	59.6	78.8	51.9	61.8	54.1
13:47 – 14:02	59.3	74.9	51.0	61.2	53.1
14:02 – 14:17	59.3	77.5	51.2	61.0	53.3
14:17 – 14:32	59.1	75.5	51.3	60.7	54.4

14:32 – 14:47	59.3	75.7	53.7	61.5	55.6
14:47 – 15:02	57.8	69.6	52.1	60.7	54.0
15:02 – 15:17	56.3	73.7	51.0	57.5	53.0
15:17 – 15:32	57.6	72.8	51.8	59.2	53.6
15:32 – 15:47	58.1	74.6	51.3	59.7	53.4

L_{Aeq} Range – 56.3 – 62.3

L_{A90} Range – 51.0 – 55.6

Survey Notes:

MTL / Port noise dominant (an array of plant noise, clacks/bangs, air release, beacons, tonal/impulsive elements). Road traffic noise sporadic along Pigeon House Road / Coastguard Cottages. Rare helicopter movement. Human activity. Bird noise.

Noise Monitoring A-NML1 (Coastguard Cottages) – Evening-time – 15th June 2023

Map of Noise Monitoring Location



Photo of Noise Monitoring Location



Measured Noise Levels dB(A)

Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
19:04 – 19:19	54.5	76.4	48.3	53.6	49.7
19:19 – 19:34	56.0	73.7	49.5	57.5	51.0
19:34 – 19:49	56.4	78.4	49.7	56.6	50.8
19:49 – 20:04	56.7	76.4	48.9	57.7	51.0

20:04 – 20:19	59.2	77.8	51.0	60.6	53.5
20:19 – 20:34	59.5	78.4	51.2	61.0	53.9
20:34 – 20:49	58.1	74.4	51.3	59.9	54.1
20:49 – 21:04	58.1	77.4	49.9	60.2	52.0
21:04 – 21:19	57.6	72.0	50.5	60.2	52.4
21:19 – 21:34	55.6	65.5	49.4	58.4	51.6
21:34 – 21:49	55.2	71.1	49.2	57.1	51.9
21:49 – 22:04	55.2	75.6	48.6	56.8	50.4
22:04 – 22:19	53.3	75.1	48.3	51.8	49.3
22:19 – 22:34	51.8	72.5	48.4	52.1	49.4
22:34 – 22:49	53.5	64.6	49.6	55.8	51.0

L_{Aeq} Range – 51.8 – 59.5

L_{A90} Range – 49.3 – 54.1

Survey Notes:

MTL / Port noise dominant (an array of plant noise, clacks/bangs, air release, beacons, crane movements, tonal/impulsive elements). Road traffic noise sporadic along Pigeon House Road / Coastguard Cottages very sporadic.

Noise Monitoring A-NML1 (Coastguard Cottages) – Night-time – 31st May – 1st June 2023

Map of Noise Monitoring Location



Photo of Noise Monitoring Location



Measured Noise Levels dB(A)

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Time	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
23:02 – 23:17	51.0	74.3	45.3	48.6	46.5
23:17 – 23:32	48.0	57.6	45.9	48.7	46.9
23:32 – 23:47	48.1	58.6	45.7	48.8	47.0
23:47 – 00:02	49.1	62.3	46.5	49.8	47.7
00:02 – 00:17	49.6	59.4	46.9	50.6	48.3
00:17 – 00:32	49.6	60.5	41.7	50.7	48.2
00:32 – 00:47	49.2	63.9	46.8	50.1	47.9
00:47 – 01:02	49.3	57.7	46.6	50.3	48.1
01:02 – 01:17	49.1	57.6	46.5	50.1	47.9
01:17 – 01:32	50.2	65.3	46.8	51.8	48.0
01:32 – 01:47	50.3	61.4	46.9	52.5	48.0
01:47 – 02:02	49.0	59.4	46.6	50.0	47.7
02:02 – 02:17	48.5	55.6	46.2	49.4	47.5
02:17 – 02:32	56.9	81.0	46.8	51.5	48.3
02:32 – 02:47	49.5	54.3	47.3	50.4	48.5
02:47 – 03:02	49.0	61.1	46.7	49.8	47.8
03:02 – 03:17	47.6	58.6	44.7	48.7	46.0
03:17 – 03:32	48.8	73.0	43.8	48.0	45.1
03:32 – 03:47	57.7	84.7	44.3	50.5	45.7
03:47 – 04:02	51.4	65.5	45.1	53.0	49.3
04:02 – 04:17	52.6	62.1	46.7	55.2	49.3
04:17 – 04:32	55.7	73.5	49.1	57.5	51.7
04:32 – 04:47	57.5	71.2	48.7	60.1	52.4
04:47 – 05:02	54.6	69.4	48.2	56.9	50.0
05:02 – 05:17	55.4	67.6	45.6	58.0	48.0

L_{Aeq} Range – 47.6 – 57.7

L_{A90} Range – 45.1 – 52.4

Survey Notes:

MTL / Port noise dominant (an array of plant noise, clacks/bangs, air release, beacons, tonal/impulsive elements). Road traffic noise sporadic along Pigeon House Road / Coastguard Cottages very sporadic. Rare helicopter movement. Human activity.

Noise Survey Data for Noise Monitoring A-NML2

Noise Monitoring A-NML2 (Adjacent Glass Bottle Site) – Daytime – 25 th May 2023	
Map of Noise Monitoring Location	Photo of Noise Monitoring Location



Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
09:25 – 09:40	51.7	64.5	45.4	54.1	47.3
09:40 – 09:55	50.8	66.9	45.3	52.8	47.3
09:55 – 10:10	52.1	63.6	45.2	54.7	47.7
10:10 – 10:25	53.7	69.9	45.2	56.5	47.8
10:25 – 10:40	58.5	73.4	46.3	60.4	48.6
10:40 – 10:55	55.9	70.0	46.9	57.2	50.8
10:55 – 11:10	48.3	61.9	43.8	50.2	45.6
11:10 – 11:25	48.1	72.7	42.9	48.9	44.5
11:25 – 11:40	48.0	63.1	41.9	50.2	43.8
11:40 – 11:55	45.6	60.3	42.3	47.1	43.7
11:55 – 12:10	48.9	63.0	42.1	51.8	43.8
12:10 – 12:25	46.7	60.1	41.8	48.8	43.5
12:25 – 12:40	48.0	62.8	42.1	49.6	43.8
12:40 – 12:55	48.4	66.6	43.3	50.6	44.9
12:55 – 13:10	48.3	62.6	43.0	50.1	44.8
13:10 – 13:25	49.4	66.4	43.5	51.3	45.2
13:25 – 13:40	48.5	65.4	42.1	50.6	44.4
13:40 – 13:55	48.0	66.7	41.9	49.1	43.6
13:55 – 14:10	46.0	58.7	41.3	47.8	43.2
14:10 – 14:25	47.6	65.4	41.5	48.9	43.5
14:25 – 14:40	49.2	63.1	41.5	52.6	43.6
14:40 – 14:55	46.5	61.1	40.6	48.3	43.1
14:55 – 15:10	47.6	66.1	41.5	49.7	43.2
15:10 – 15:25	48.4	68.2	40.5	48.9	42.1
15:25 – 15:40	50.1	69.9	40.6	49.2	42.3
15:40 – 15:55	47.8	60.6	41.0	50.6	42.6

L_{Aeq} Range – 46.0 – 58.5

L_{A90} Range – 42.1 – 50.8

Survey Notes:

Plant noise from port dominant, constant source from Covanta plant. Sporadic movements from HGVs on main road. Occasional movement into / off road close to meter. Occasional cars / human movements on / off road. Sporadic activity from excavator at glass bottle site.

Noise Monitoring A-NML2 (Adjacent Glass Bottle Site) – Evening-time – 19th June 2023

Map of Noise Monitoring Location



Photo of Noise Monitoring Location



Time	Measured Noise Levels dB(A)				
	L_{Aeq}	L_{AMax}	L_{AMin}	L_{A10}	L_{A90}
19:07 – 19:22	43.7	66.5	38.1	44.7	39.7
19:22 – 19:37	46.6	66.0	39.2	47.7	41.1
19:37 – 19:52	46.1	62.6	38.6	49.0	40.8
19:52 – 20:07	47.3	66.6	38.7	47.6	40.6
20:07 – 20:22	43.2	60.1	38.8	45.0	40.5
20:22 – 20:37	43.6	62.3	38.6	45.1	40.2
20:37 – 20:52	47.6	60.8	39.8	49.5	43.2
20:52 – 21:07	45.8	61.6	39.5	47.8	41.1
21:07 – 21:22	46.3	62.3	38.7	48.6	40.5
21:22 – 21:37	45.8	62.0	38.2	49.3	40.2

21:37 – 21:52	46.3	63.2	38.3	49.4	39.7
21:52 – 22:07	44.9	58.2	38.7	47.7	40.3
22:07 – 22:22	43.2	56.7	38.4	45.8	40.1
22:22 – 22:37	43.4	59.1	38.4	45.7	39.8

L_{Aeq} Range – 43.2 – 47.3

L_{A90} Range – 39.7 – 43.2

Survey Notes:

Plant/equipment noise from port. Sporadic/occasional traffic movements. Brief helicopter pass over. Birdsong. Car idling for short period.

Noise Monitoring A-NML2 (Adjacent Glass Bottle Site) – Night-time – 24-25th May 2023

Map of Noise Monitoring Location



Photo of Noise Monitoring Location



Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
23:04 – 23:19	43.7	57.8	39.8	44.9	41.5
23:19 – 23:34	43.1	59.0	38.8	44.6	41.0
23:34 – 23:49	42.9	52.7	39.1	44.3	41.3
23:49 – 00:04	43.6	52.4	40.2	45.1	41.9
00:04 – 00:19	43.5	52.1	40.2	45.1	41.6

00:19 – 00:34	46.2	64.4	41.0	47.7	43.1
00:34 – 00:49	53.0	78.8	41.6	49.5	43.3
00:49 – 01:04	45.3	58.6	41.4	47.0	43.1
01:04 – 01:19	45.3	56.8	41.5	46.7	43.5
01:19 – 01:34	45.1	53.9	41.5	46.4	43.6
01:34 – 01:49	45.3	54.8	42.5	46.6	43.8
01:49 – 02:04	55.0	74.3	42.1	52.8	44.1
02:04 – 02:19	45.1	55.2	42.1	46.3	43.6
02:19 – 02:34	45.5	57.5	42.0	46.8	43.7
02:34 – 02:49	46.9	64.4	41.7	49.1	43.8
02:49 – 03:04	46.3	59.8	42.2	47.8	44.1
03:04 – 03:19	46.7	60.0	42.5	48.1	44.3
03:19 – 03:34	46.4	56.7	42.2	47.8	44.3
03:34 – 03:49	46.2	59.4	42.1	47.6	44.0
03:49 – 04:04	46.7	59.1	42.3	48.1	44.4
04:04 – 04:19	46.4	61.0	41.8	48.2	44.1

L_{Aeq} Range – 42.9 – 55.0

Taking out outliers (43 – 47)

L_{A90} Range – 41.0 – 44.3

Survey Notes:

Existing port noise / Covanta plant/equipment noise. Isolated helicopter movement.

Noise Survey Data for Noise Monitoring A-NML3

Noise Monitoring A-NML3 (Sandymount) – Daytime – 8th June 2023	
Map of Noise Monitoring Location	Photo of Noise Monitoring Location



Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
09:27 – 09:42	64.3	78.5	49.4	68.0	53.3
09:42 – 09:57	64.1	74.3	47.5	67.9	52.4
09:57 – 10:12	64.6	76.1	47.6	68.0	53.1
10:12 – 10:27	64.2	79.2	47.3	68.2	52.0
10:27 – 10:42	64.4	77.1	46.9	68.1	52.0
10:42 – 10:57	64.5	75.4	47.5	67.9	54.5
10:57 – 11:12	64.7	73.0	46.8	68.3	52.6
11:12 – 11:27	64.3	72.6	46.8	68.3	51.0
11:27 – 11:42	64.7	82.4	47.8	68.6	51.4
11:42 – 11:57	64.7	79.3	49.4	68.2	53.3
11:57 – 12:12	64.8	74.6	47.8	68.8	52.1
12:12 – 12:27	64.7	72.3	47.2	68.3	52.9
12:27 – 12:42	64.3	76.2	47.4	67.8	50.8
12:42 – 12:57	64.4	80.4	45.3	68.0	51.4
12:57 – 13:12	64.6	74.4	47.5	67.9	53.3
13:12 – 13:27	64.8	74.5	49.5	68.4	54.5
13:27 – 13:42	64.2	74.0	47.5	68.3	52.6
13:42 – 13:57	64.2	72.7	46.4	68.0	52.7
13:57 – 14:12	64.7	74.9	47.2	68.4	51.6
14:12 – 14:27	64.6	74.8	47.9	68.3	52.5
14:27 – 14:42	64.3	74.6	47.9	67.9	53.3
14:42 – 14:57	64.5	76.6	48.3	68.3	51.8
14:57 – 15:12	64.7	78.2	50.6	68.0	54.2
15:12 – 15:27	64.8	77.8	49.4	68.0	53.4
15:27 – 15:42	64.2	73.7	49.1	68.3	51.7

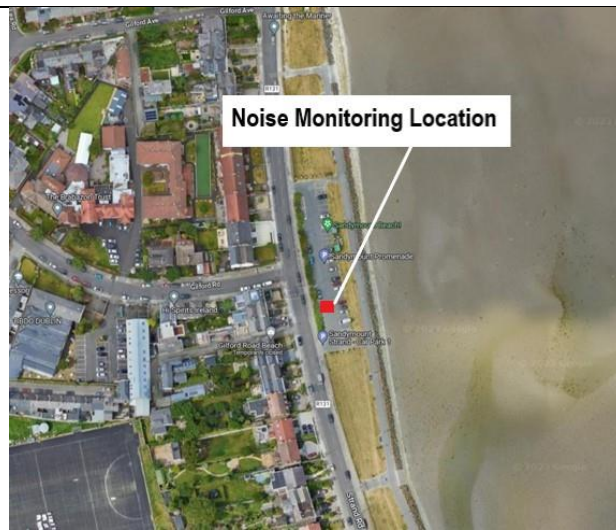
L_{Aeq} Range – 64.1 – 64.8

L_{A90} Range – 50.8 – 54.5

Survey Notes:

Road traffic noise dominant. Car movements in car park, occasional idling vehicles, human activity (passing individuals). Bird song. Tide movement.

Noise Monitoring A-NML3 (Sandymount) – Evening-time – 21st June 2023

Map of Noise Monitoring Location

Photo of Noise Monitoring Location


Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
19:06 – 19:21	64.9	75.8	45.9	69.3	51.7
19:21 – 19:36	66.0	76.4	43.5	69.9	51.1
19:36 – 19:51	65.0	74.6	39.6	69.6	48.2
19:51 – 20:06	65.0	80.2	43.4	69.0	51.7
20:06 – 20:21	65.2	77.6	44.3	69.4	52.3
20:21 – 20:36	64.6	76.5	41.2	69.0	50.4
20:36 – 20:51	65.0	79.1	45.4	69.0	53.3
20:51 – 21:06	64.9	75.7	43.9	69.1	49.7
21:06 – 21:21	65.6	77.0	41.4	70.0	50.8
21:21 – 21:36	65.0	79.9	39.4	69.3	49.6
21:36 – 21:51	67.1	93.6	41.9	69.6	48.9
21:51 – 22:06	66.9	87.4	39.8	69.8	50.4
22:06 – 22:21	64.9	82.5	38.9	69.4	45.7
22:21 – 22:36	65.8	85.8	41.5	69.5	49.6
22:36 – 22:51	65.7	84.0	41.2	69.4	50.8

L_{Aeq} Range – 64.6 – 67.1

L_{A90} Range – 48.2 – 53.3

Survey Notes:

Road traffic noise dominant. Car movements and human activity in car park area.

Noise Monitoring A-NML3 (Sandymount) – Night-time – 7-8th June 2023

Map of Noise Monitoring Location



Photo of Noise Monitoring Location



Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
23:07 – 23:22	62.7	77.6	41.2	67.8	44.1
23:22 – 23:37	62.1	74.6	40.3	67.5	42.6
23:37 – 23:52	60.3	73.7	40.0	65.8	42.9
23:52 – 00:07	62.2	75.2	41.9	67.2	45.1
00:07 – 00:22	60.1	75.3	39.5	64.6	41.4
00:22 – 00:37	60.5	72.9	39.7	65.9	41.5
00:37 – 00:52	59.5	77.2	39.6	63.9	40.7
00:52 – 01:07	57.1	74.1	38.8	57.1	41.3
01:07 – 01:22	59.2	78.6	40.0	63.4	41.7
01:22 – 01:37	56.8	75.5	39.9	54.6	41.1
01:37 – 01:52	54.7	73.9	40.4	52.0	41.5
01:52 – 02:07	55.8	73.5	41.2	52.7	42.5
02:07 – 02:22	57.0	75.9	42.5	57.9	43.5
02:22 – 02:37	57.0	73.7	43.7	59.3	44.8
02:37 – 02:52	56.9	78.6	44.0	56.0	45.4

02:52 – 03:07	52.2	75.2	43.5	49.5	44.7
03:07 – 03:22	55.1	76.6	43.5	50.9	45.2
03:22 – 03:37	58.1	74.3	43.6	60.8	45.6
03:37 – 03:52	57.4	74.0	43.6	60.8	45.4
03:52 – 04:07	49.1	72.5	43.1	47.2	44.7
04:07 – 04:22	57.8	74.9	42.8	57.4	44.4
04:22 – 04:37	53.4	72.5	43.6	49.9	45.3
04:37 – 04:52	53.9	74.1	43.0	50.3	45.1

L_{Aeq} Range – 49.1 – 62.7

L_{A90} Range – 40.7 – 45.6

Survey Notes:

Road traffic noise dominant. Occasional movements in/out of car park. Occasional human activity, passing individuals talking etc. Tide coming.

Noise Survey Data for Noise Monitoring A-NML4

Noise Monitoring A-NML4 (Adjacent ESB Site Entrance) – Daytime – 13th June 2023

Map of Noise Monitoring Location

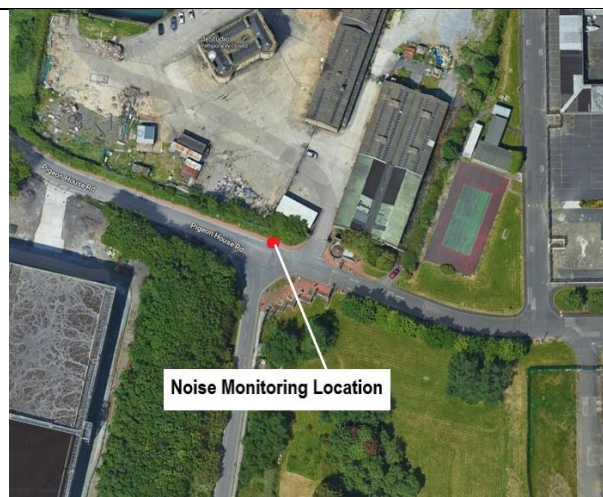


Photo of Noise Monitoring Location



Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
09:13 – 09:28	53.3	69.3	48.2	56.3	49.2
09:28 – 09:43	55.7	75.9	48.4	58.4	49.3
09:43 – 09:58	57.9	73.6	48.6	62.0	49.8

09:58 – 10:13	54.8	69.9	47.1	57.9	48.5
10:13 – 10:28	62.5	83.5	47.8	61.6	49.0
10:28 – 10:43	58.9	73.5	47.6	62.0	49.0
10:43 – 10:58	59.1	74.3	47.8	62.3	49.4
10:58 – 11:13	59.1	76.2	48.6	61.9	50.4
11:13 – 11:28	60.1	79.6	48.0	62.8	50.2
11:28 – 11:43	58.6	76.8	48.3	62.9	49.7
11:43 – 11:58	58.7	75.2	47.9	61.1	49.8
11:58 – 12:13	55.8	72.1	48.5	58.5	49.6
12:13 – 12:28	61.0	77.8	48.6	64.0	50.1
12:28 – 12:43	54.6	68.3	48.9	58.0	50.0
12:43 – 12:58	58.0	78.3	48.9	60.9	49.9
12:58 – 13:13	55.6	69.3	48.5	58.2	49.7
13:13 – 13:28	56.2	69.2	48.7	59.3	49.9
13:28 – 13:43	54.0	68.8	48.2	56.2	49.5
13:43 – 13:58	62.6	83.0	47.8	61.1	49.1
13:58 – 14:13	56.8	73.2	47.4	59.5	49.1
14:13 – 14:28	59.3	78.1	47.0	62.3	49.1
14:28 – 14:43	62.4	87.3	47.8	60.0	49.4
14:43 – 14:58	63.1	82.1	48.3	62.5	49.9

L_{Aeq} Range – 53.3 – 63.1

L_{A90} Range – 48.5 – 50.4

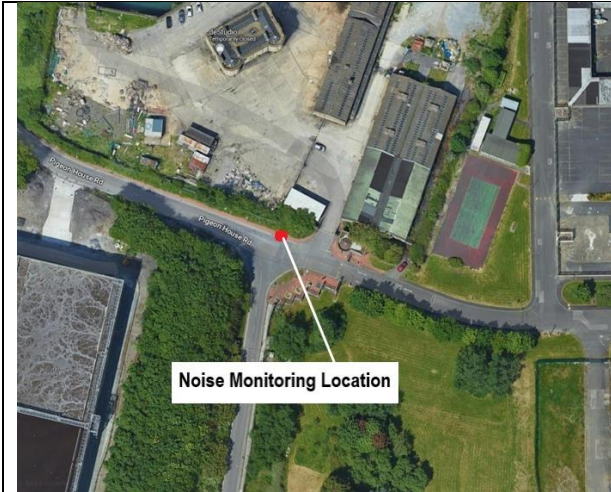
Survey Notes:

An array of plant/equipment noise sources from surrounding plots. Regular traffic on road. Regular traffic entering ESB site, including idling while awaiting security access. Regular traffic entering plot entrance beside noise meter location.

Noise Monitoring A-NML4 (Adjacent ESB Site Entrance) – Night-time – 12-13th June 2023

Map of Noise Monitoring Location

Photo of Noise Monitoring Location



Time	Measured Noise Levels dB(A)				
	L _{Aeq}	L _{AMax}	L _{AMin}	L _{A10}	L _{A90}
23:11 – 23:26	51.6	64.3	48.1	52.8	48.8
23:26 – 23:41	49.6	59.7	47.8	50.0	48.6
23:41 – 23:56	50.3	58.6	47.8	52.0	48.6
23:56 – 00:11	53.7	65.5	48.3	58.1	49.2
00:11 – 00:26	66.5	97.9	47.2	65.6	48.2
00:26 – 00:41	47.6	64.6	46.2	48.1	46.9
00:41 – 00:56	47.3	52.3	46.0	47.8	46.8
00:56 – 01:11	49.6	64.1	45.5	48.0	46.3
01:11 – 01:26	48.8	63.3	45.7	48.6	46.8
01:26 – 01:41	49.1	55.5	41.7	49.7	48.6
01:41 – 01:56	51.6	68.4	47.6	51.9	48.6
01:56 – 02:11	49.4	61.4	47.7	49.8	48.5
02:11 – 02:26	50.1	66.0	45.6	51.4	46.8
02:26 – 02:41	52.7	73.2	46.5	54.5	47.8
02:41 – 02:56	50.2	65.2	47.9	50.4	48.6
02:56 – 03:11	51.6	77.0	47.6	50.0	48.5
03:11 – 03:26	50.5	60.5	48.5	51.5	49.5

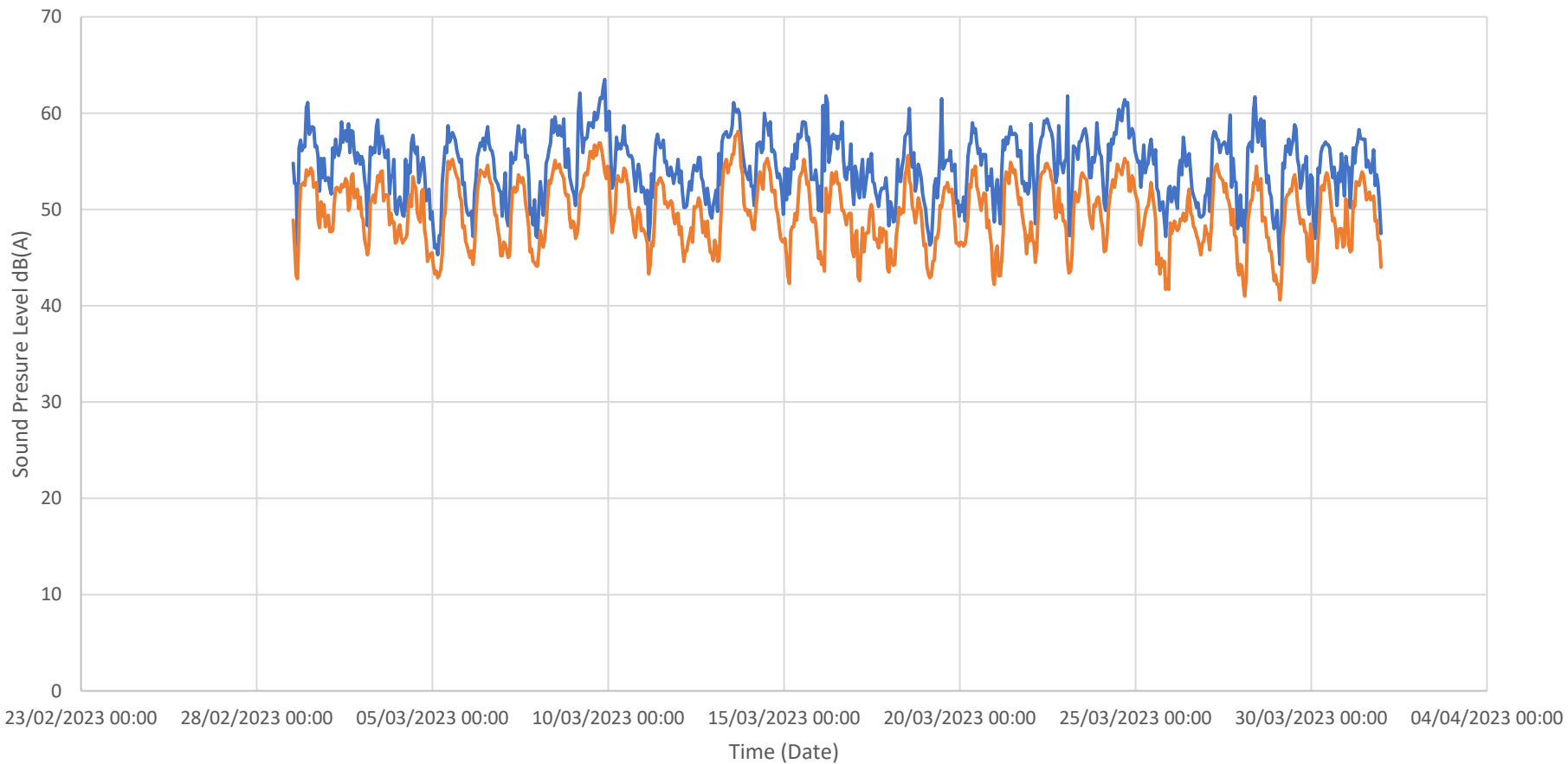
L_{Aeq} Range – 47.3 – 53.7 [66.5 not considered as it is a significant outlier]

L_{A90} Range – 46.3 – 49.5

Survey Notes:

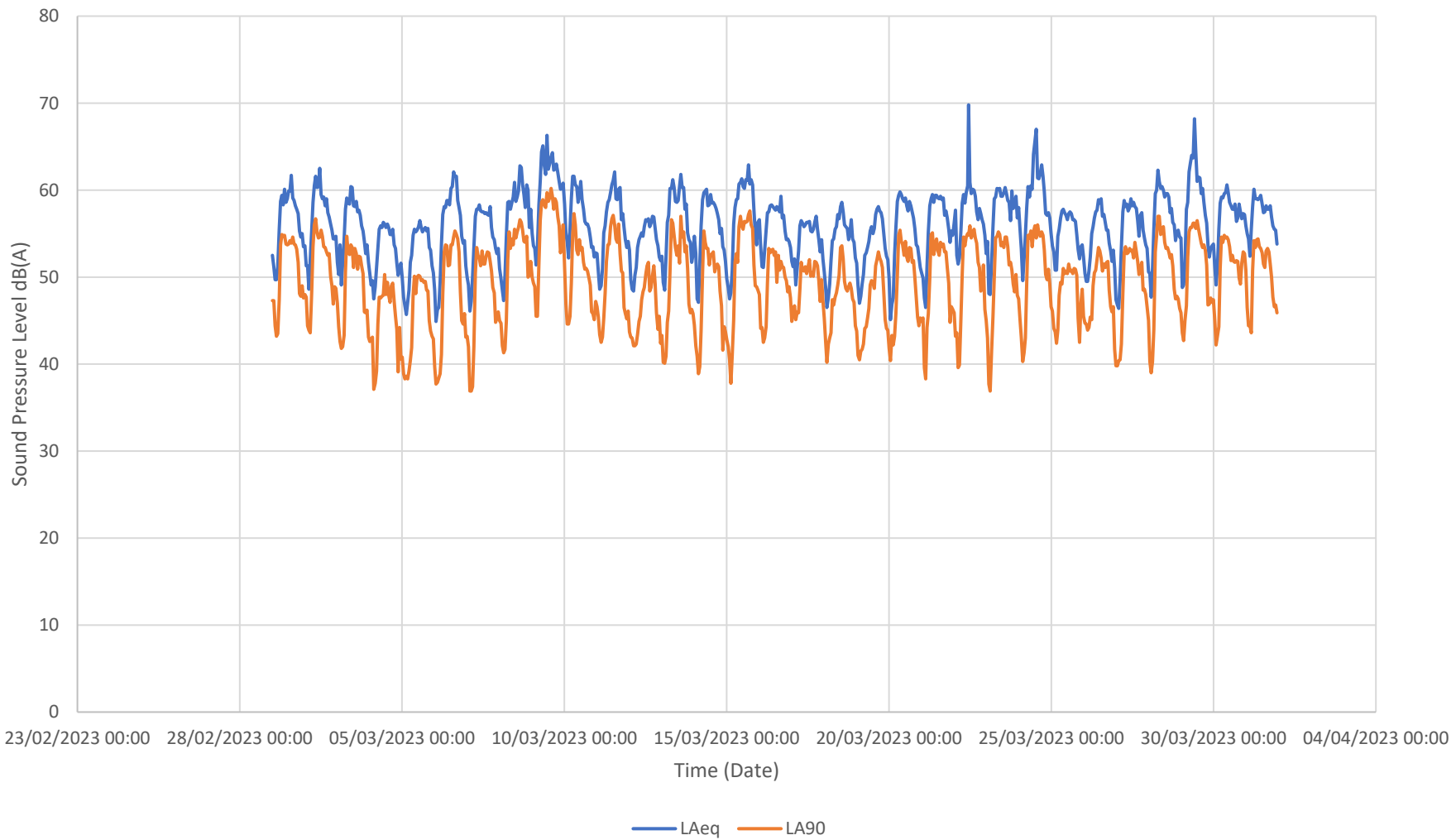
An array of plant/equipment noise sources from surrounding plots. Occasional vehicle / HGV movements into ESB site, sometimes stopped and idling. Small spits of rain for short period.

U-NML1 - Marina - March 2023



— LAeq — LA90

U-NML2 - P&O Noise Levels



U-NML3 - Clontarf - Noise Levels

