



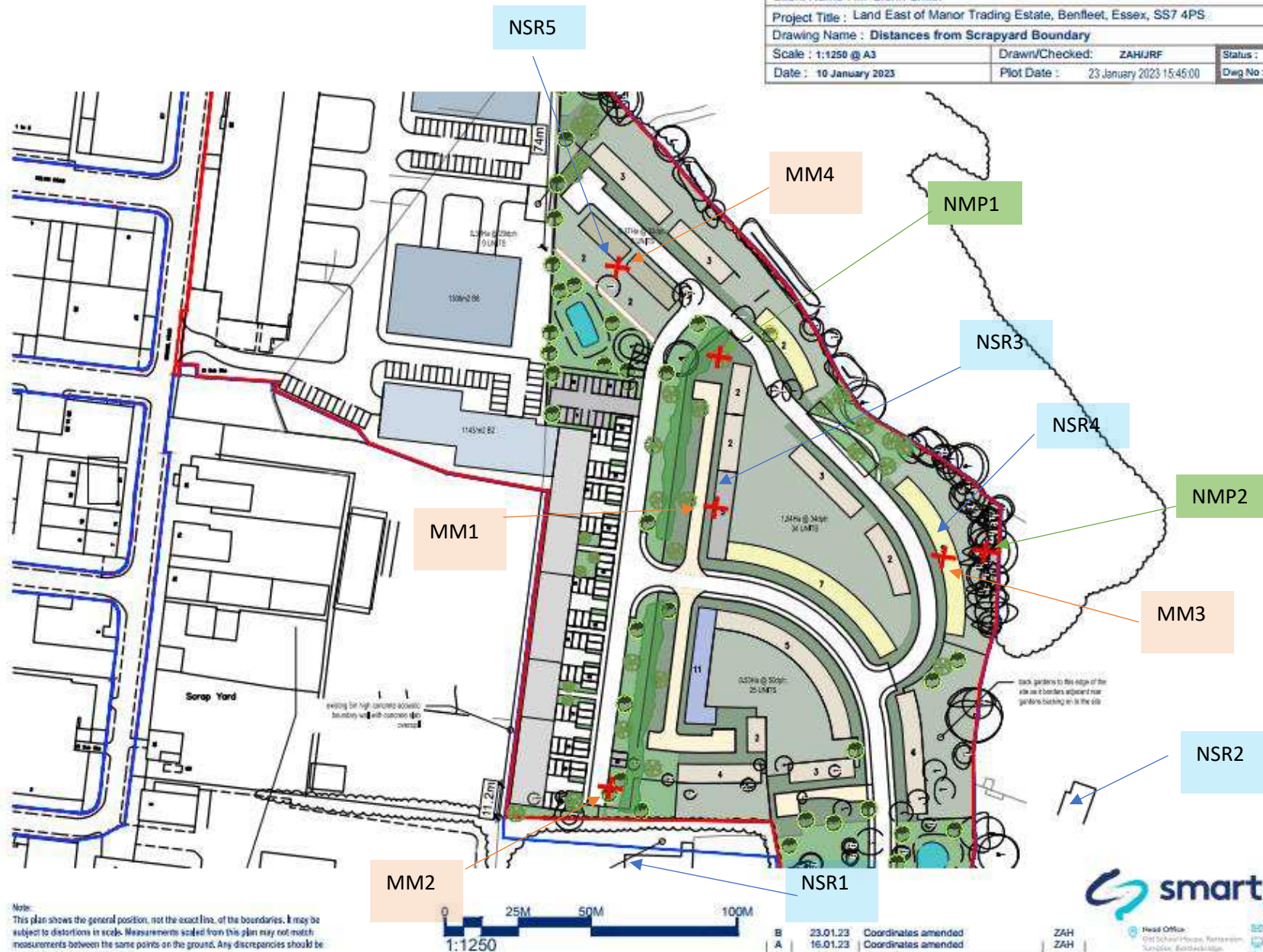
Key:

Site Boundary



Appendix A – Site Plan (SP2) – Location of Manual and Fixed Monitoring Positions

Client Name : Mr Glenn Smith			
Project Title : Land East of Manor Trading Estate, Benfleet, Essex, SS7 4PS			
Drawing Name : Distances from Scrapyard Boundary			
Scale : 1:1250 @ A3	Drawn/Checked: ZAH/JRF	Status : Application	Rev : B
Date : 10 January 2023	Plot Date : 23 January 2023 15:45:00	Dwg No : 16.3839/M009	



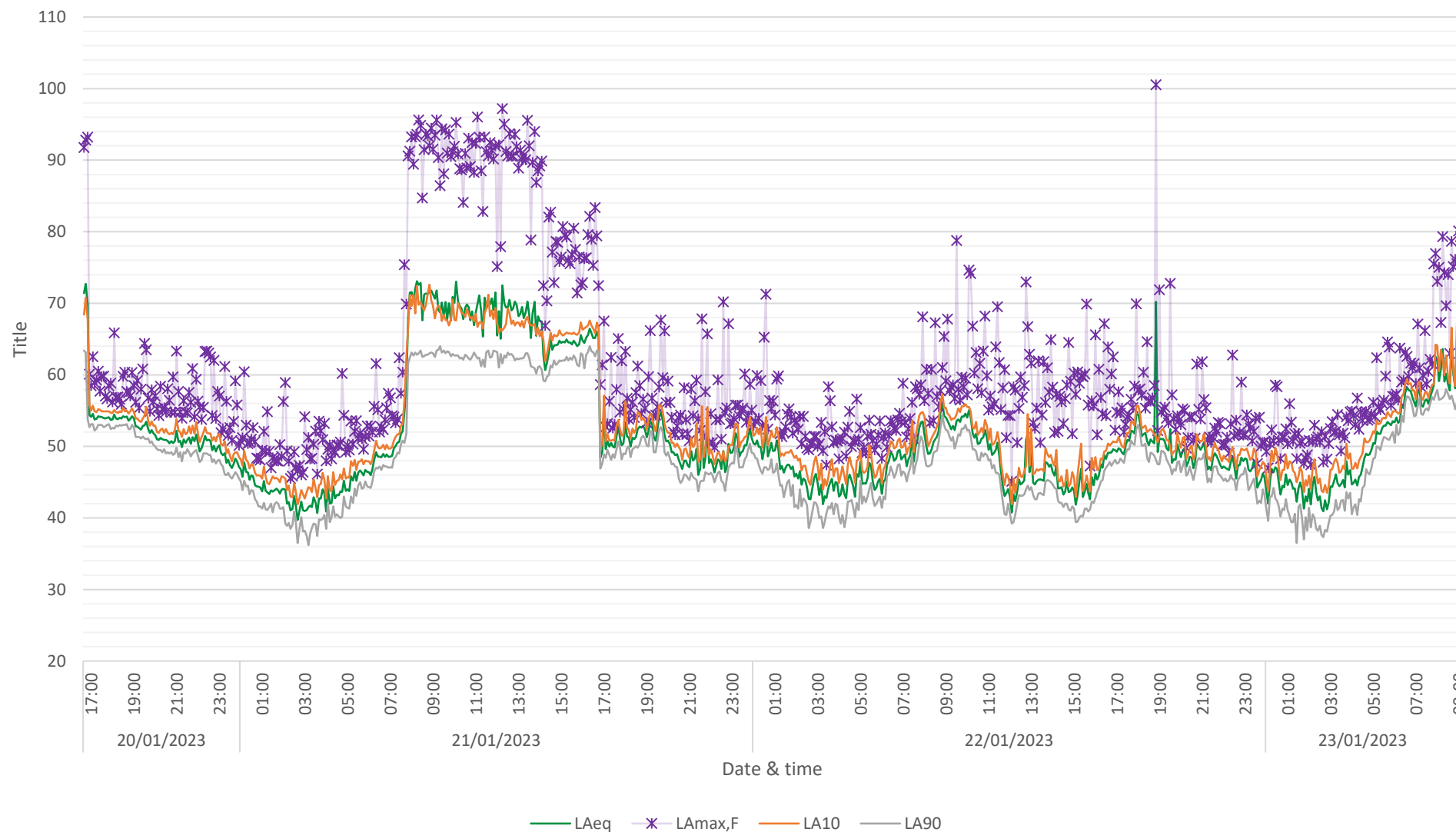
B	23.01.23	Coordinates amended	ZAH
A	16.01.23	Coordinates amended	ZAH
No.	Date	Amendment	Initials

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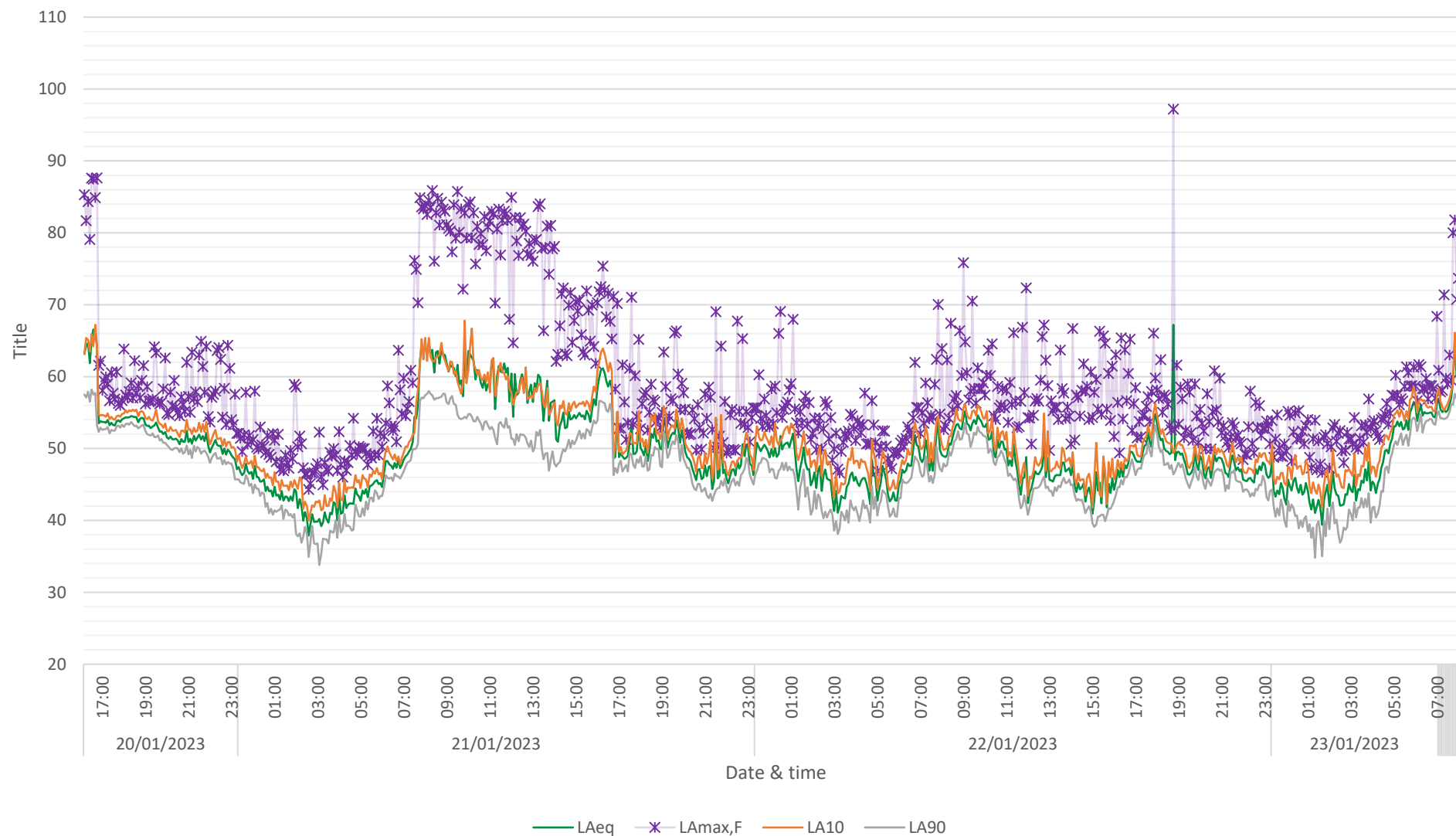
Appendix B - Time History 1 (TH1)

Land East of Manor Trading Estate, South Benfleet
Friday 20 January 2023 - Monday 23 January 2023
Position 1



Appendix B - Time History 2 (TH2)

Land East of Manor Trading Estate, South Benfleet
Friday 20 January 2023 - Monday 23 January 2023
Position 2



Appendix C – Typical LA90 Histograms

Position 1

Figure 1: Histogram of the LA90 licensed hours (Monday – Friday 07:30-18:30, Saturday 07:30-17:30)

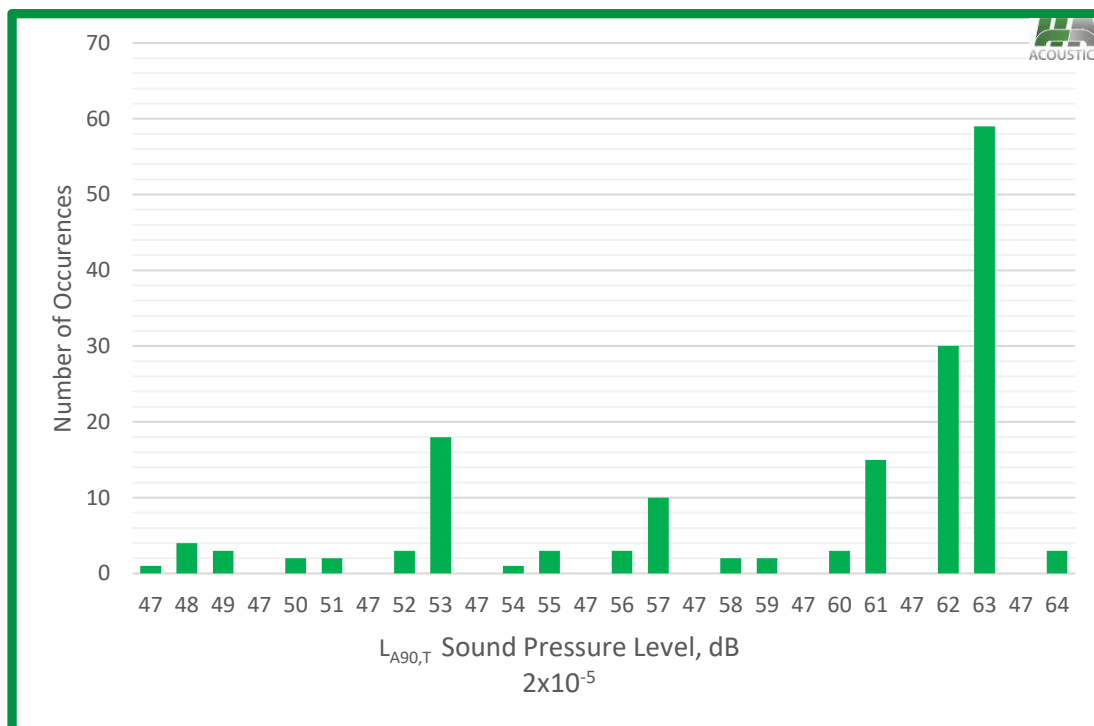


Figure 2: Histogram of the LA90 without Benfleet Scrap in Operation (Monday-Friday 18:30-19:30, Saturday 17:30-18:30)

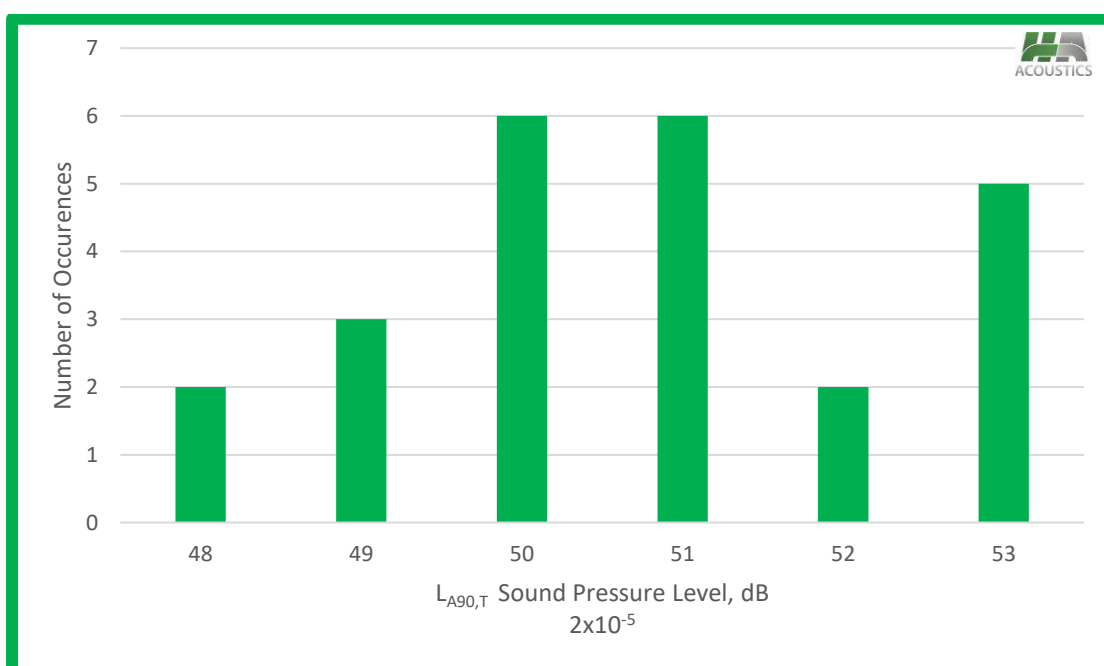


Figure 3: Histogram of the LA90 Night-time Hours (23:00-07:00)

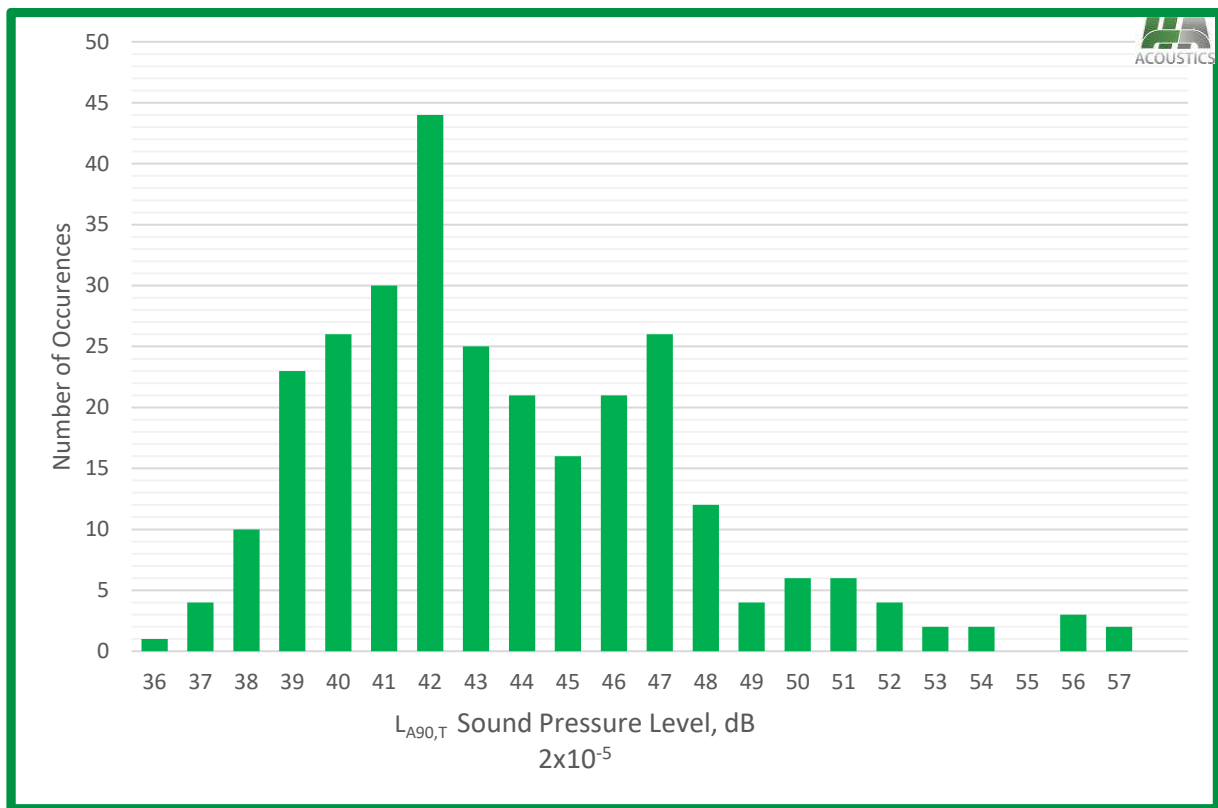
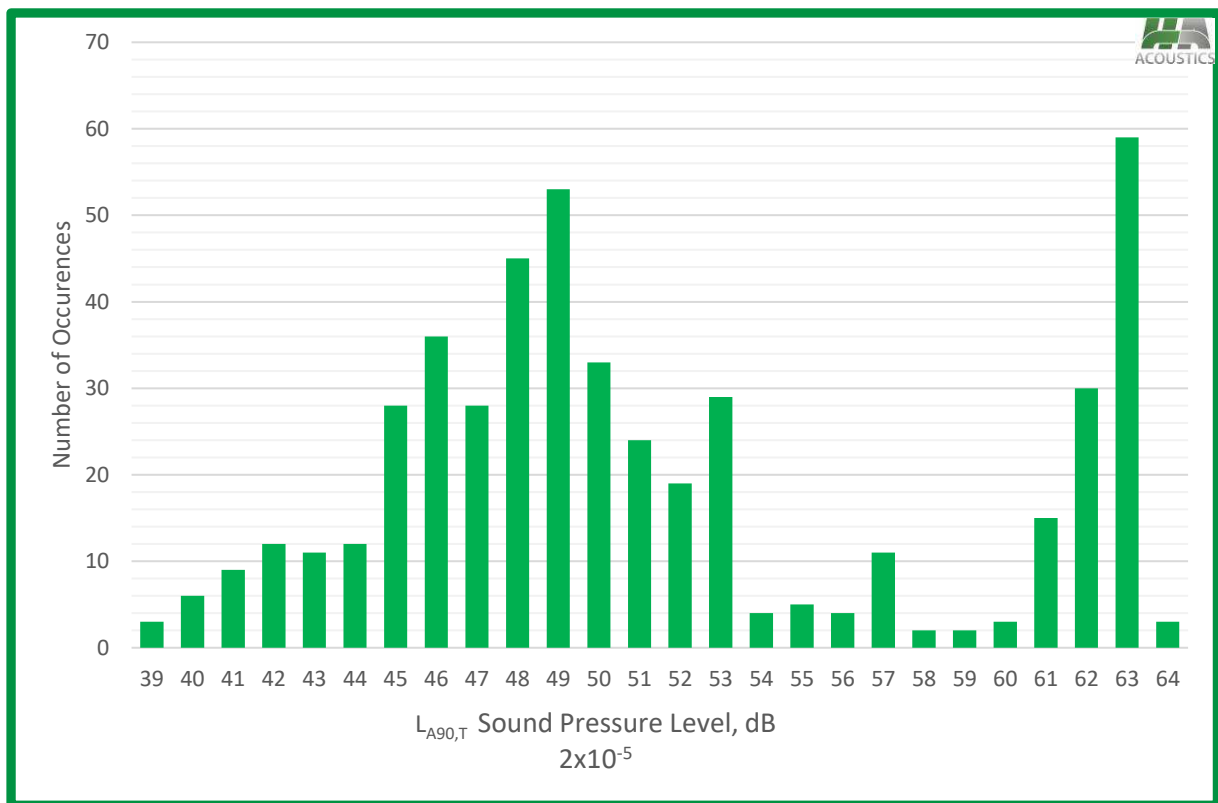


Figure 3: Histogram of the LA90 Daytime Hours (07:00-23:00)



Position 2

Figure 5: Histogram of the LA90 licensed hours (Monday – Friday 07:30-18:30, Saturday 07:30-17:30)

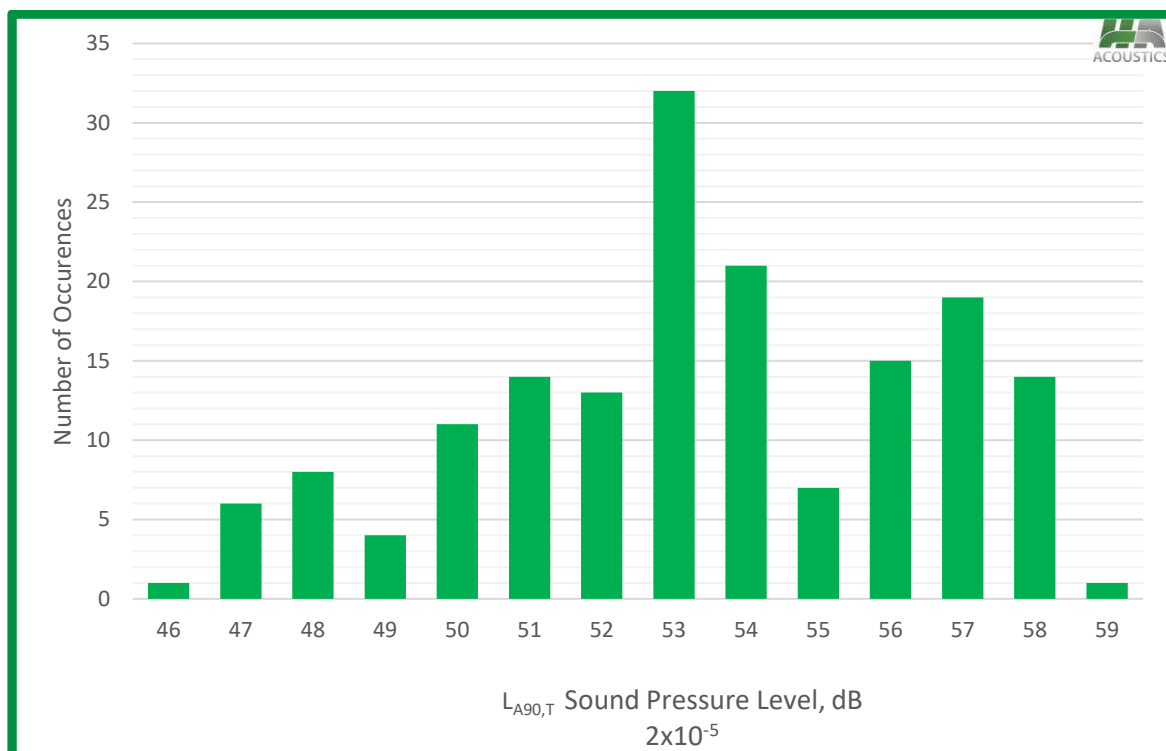


Figure 6: Histogram of the LA90 without Benfleet Scrap in Operation (Monday-Friday 18:30-19:30, Saturday 17:30-18:30)

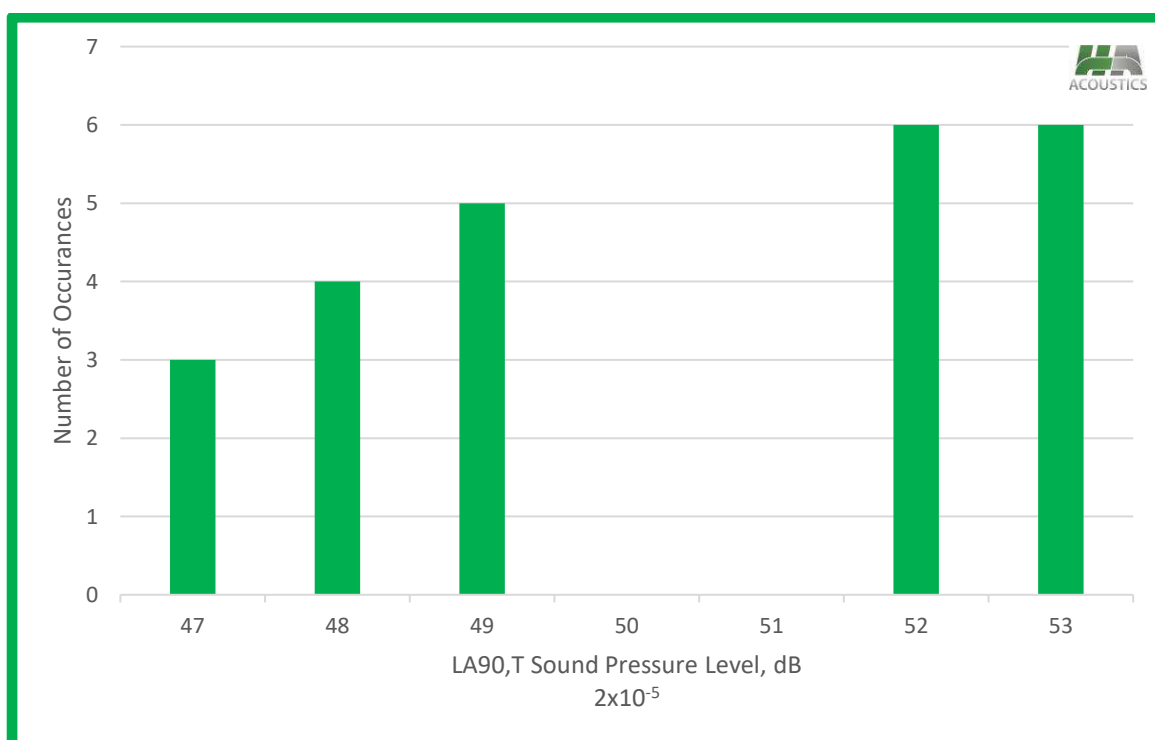


Figure 7: Histogram of the LA90 Night-time Hours (23:00-07:00)

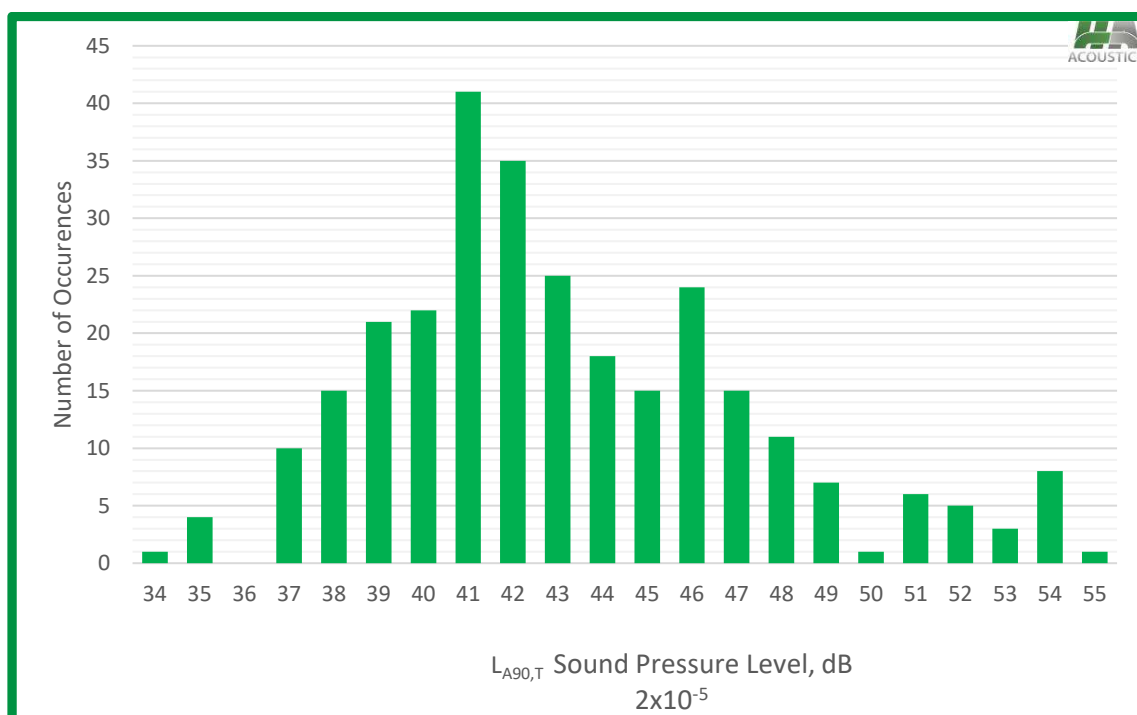
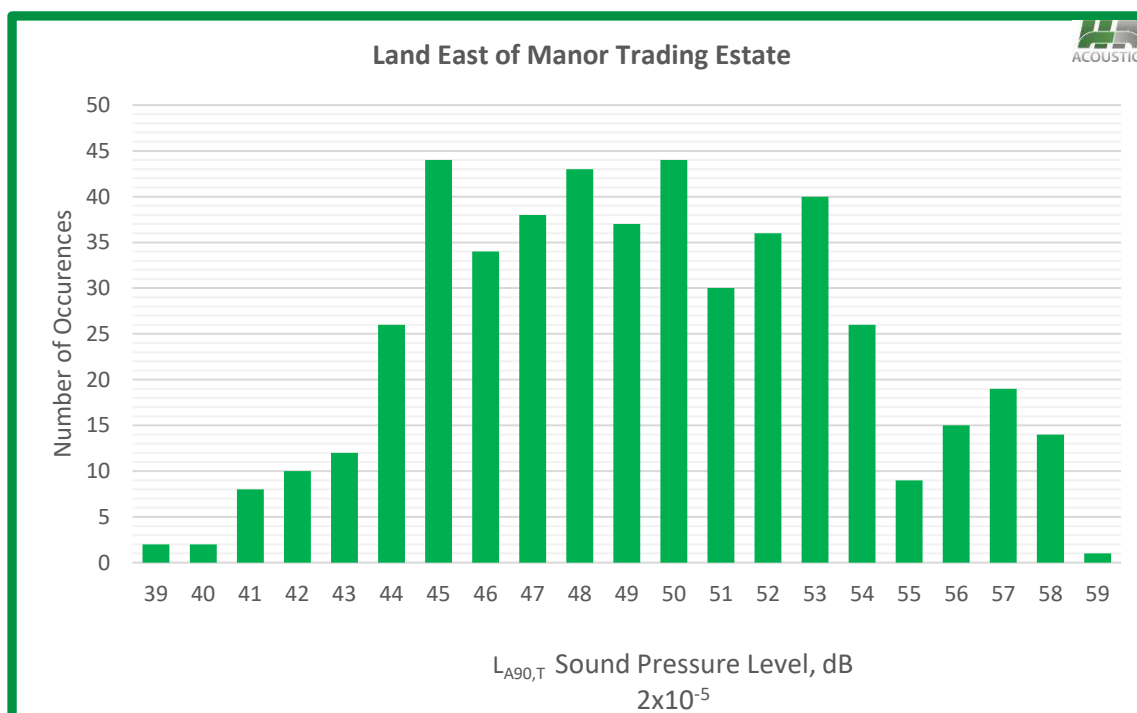


Figure 8: Histogram of the LA90 Daytime Hours (07:00-23:00)





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Land East of Manor Trading
Estate, Benfleet

Appendix D1 - Points Map
Existing Measured Site
Conditions

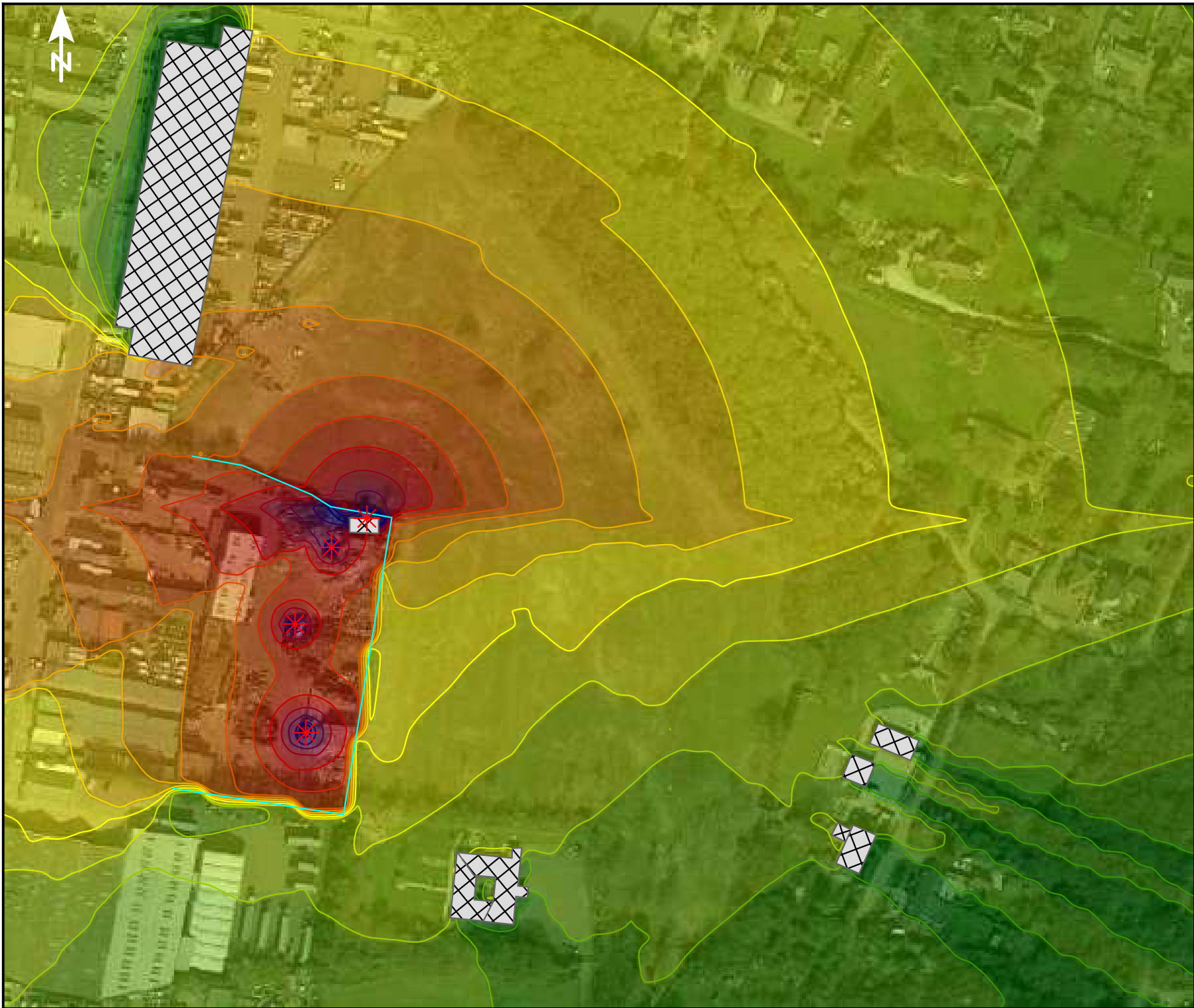
Author: Josie Nixon MIOA

Signs and symbols

- Existing Barrier
- Receiver
- Receiver at building
- Source: Crusher/Grabber

1 : 1925
0 10 20 40 60 80 m





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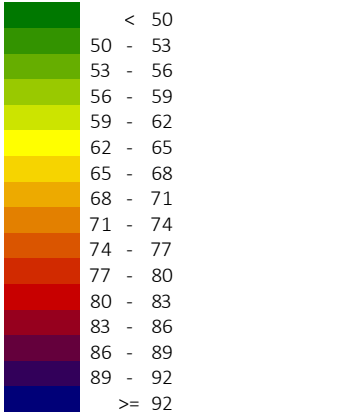
Appendix D2 - Noise Map
Existing Measured Site
Conditions

Author: Josie Nixon MIOA

Signs and symbols

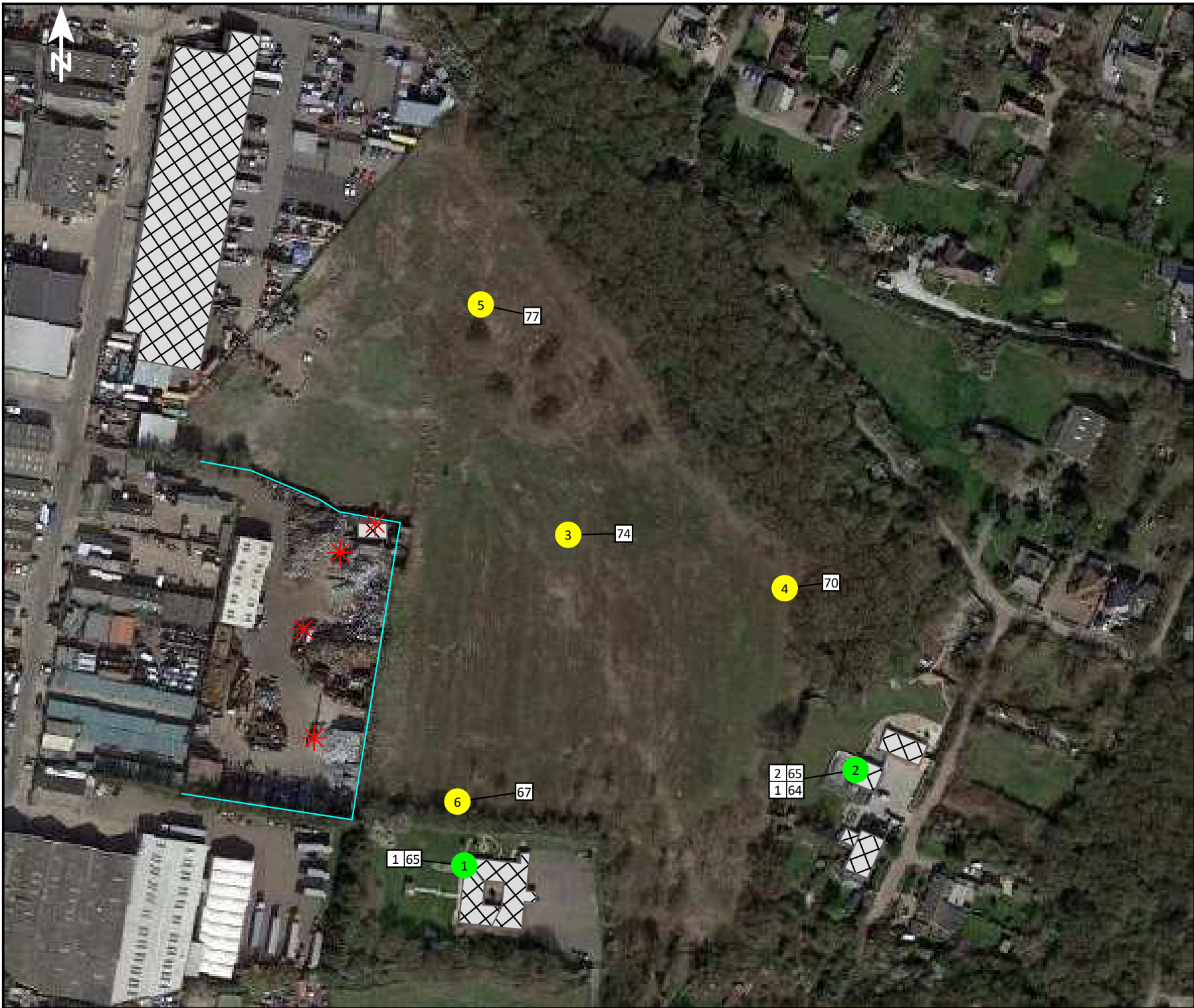
- Existing Barrier
- Source: Crusher/Grabber

Levels in dB(A)



1 : 1925
0 10 20 40 60 80 m





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Land East of Manor Trading
Estate, Benfleet

Appendix D3 - Points Map
Existing Measured Site
Conditions incorporating
8dB Penalties

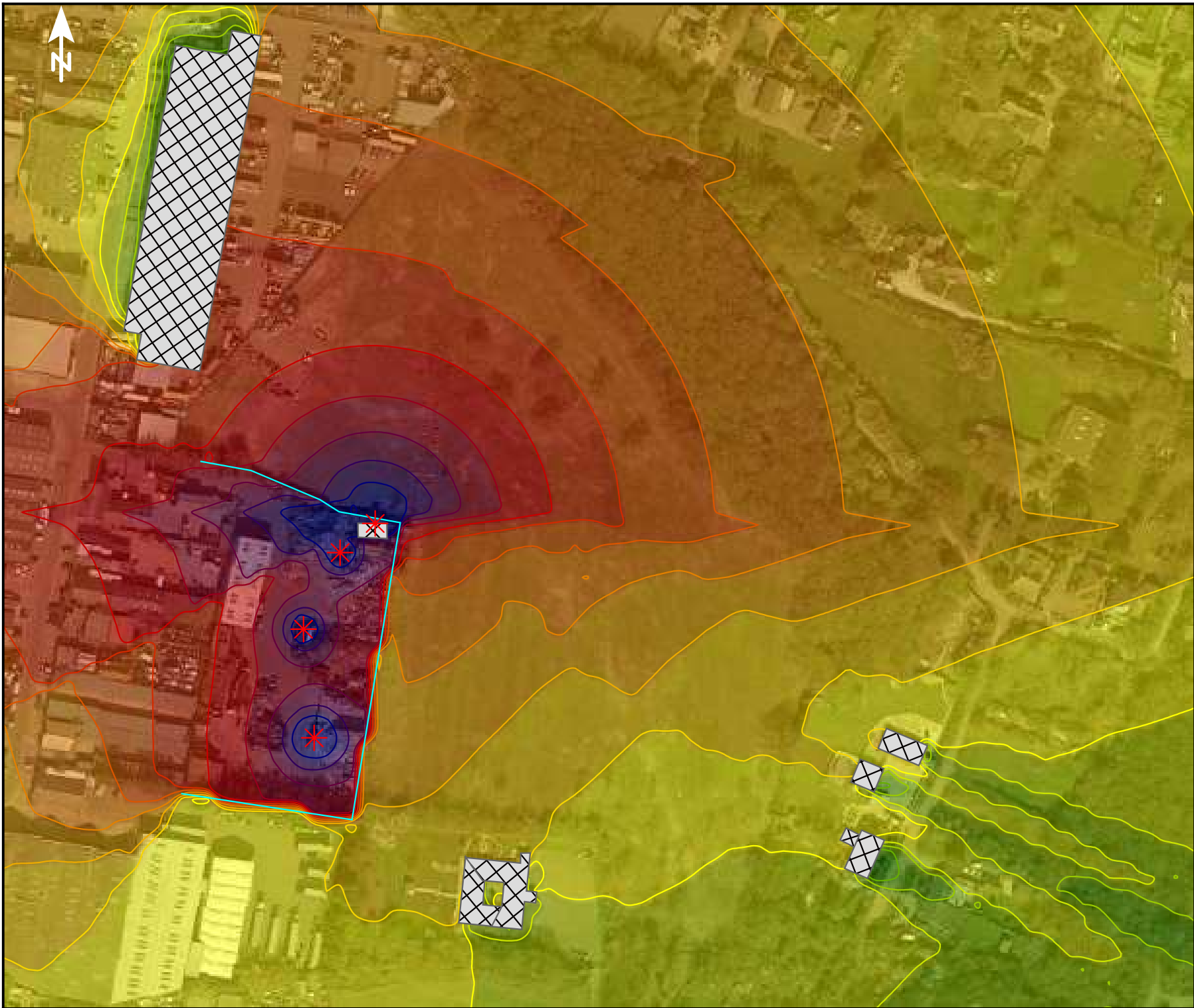
Author: Josie Nixon MIOA

Signs and symbols

- Existing Barrier
- Receiver
- Receiver at building
- Source: Crusher/Grabber

1 : 1925
0 10 20 40 60 80 m





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Land East of Manor Trading
Estate, Benfleet

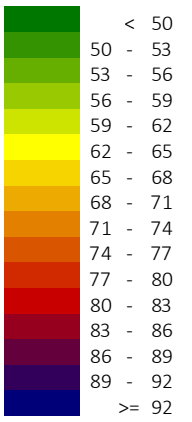
Appendix D4 - Noise Map
Existing Measured Site
Conditions incorporating
8dB Penalties

Author: Josie Nixon MIOA

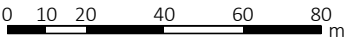
Signs and symbols

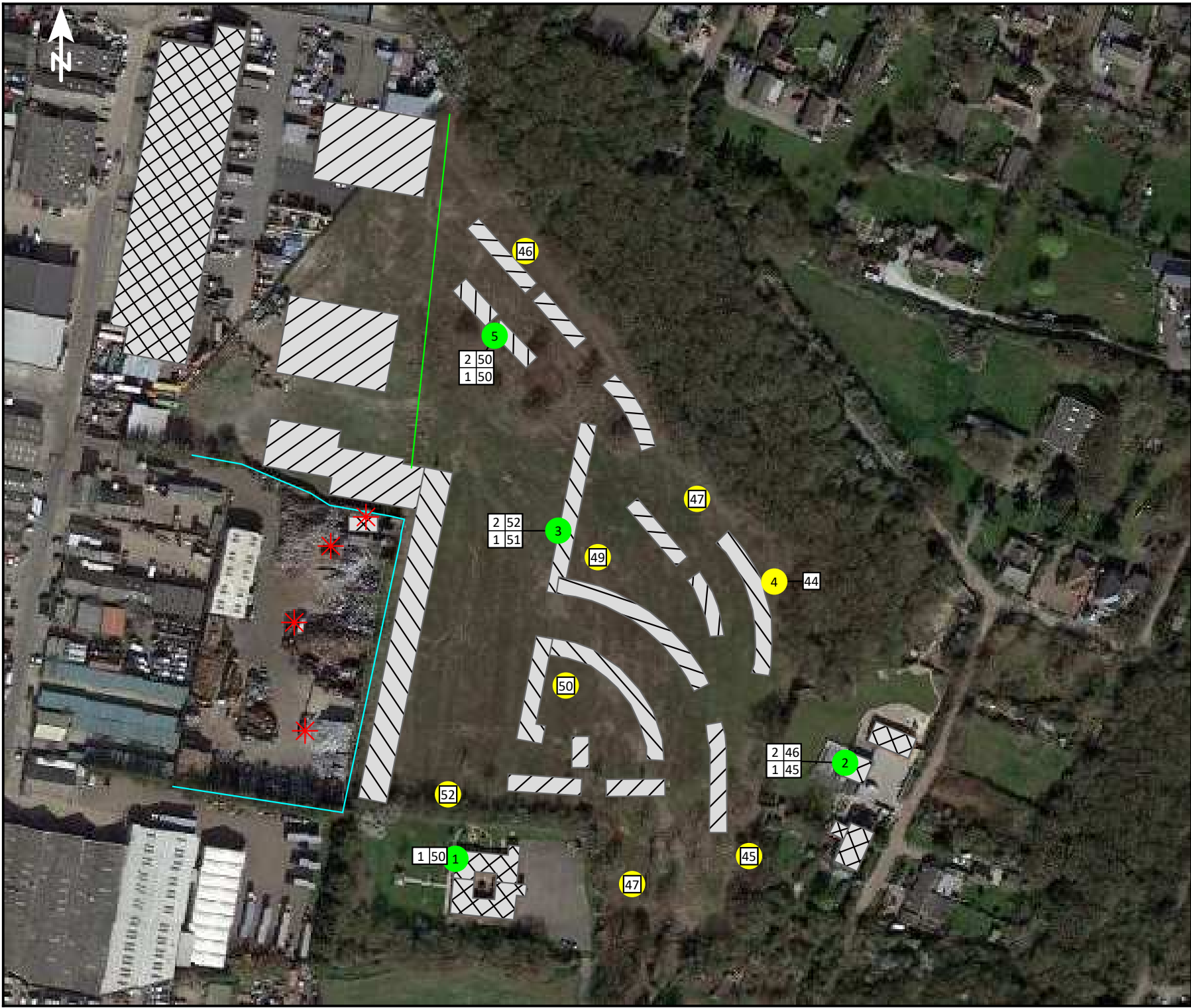
- Existing Barrier
- Source: Crusher/Grabber

Levels in dB(A)



1 : 1925





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Land East of Manor Trading
Estate, Benfleet

Appendix D5 - Points Map
Proposed Mixed-use Scheme
Predicted Noise Climate

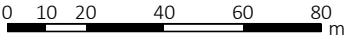
Author: Josie Nixon MIOA

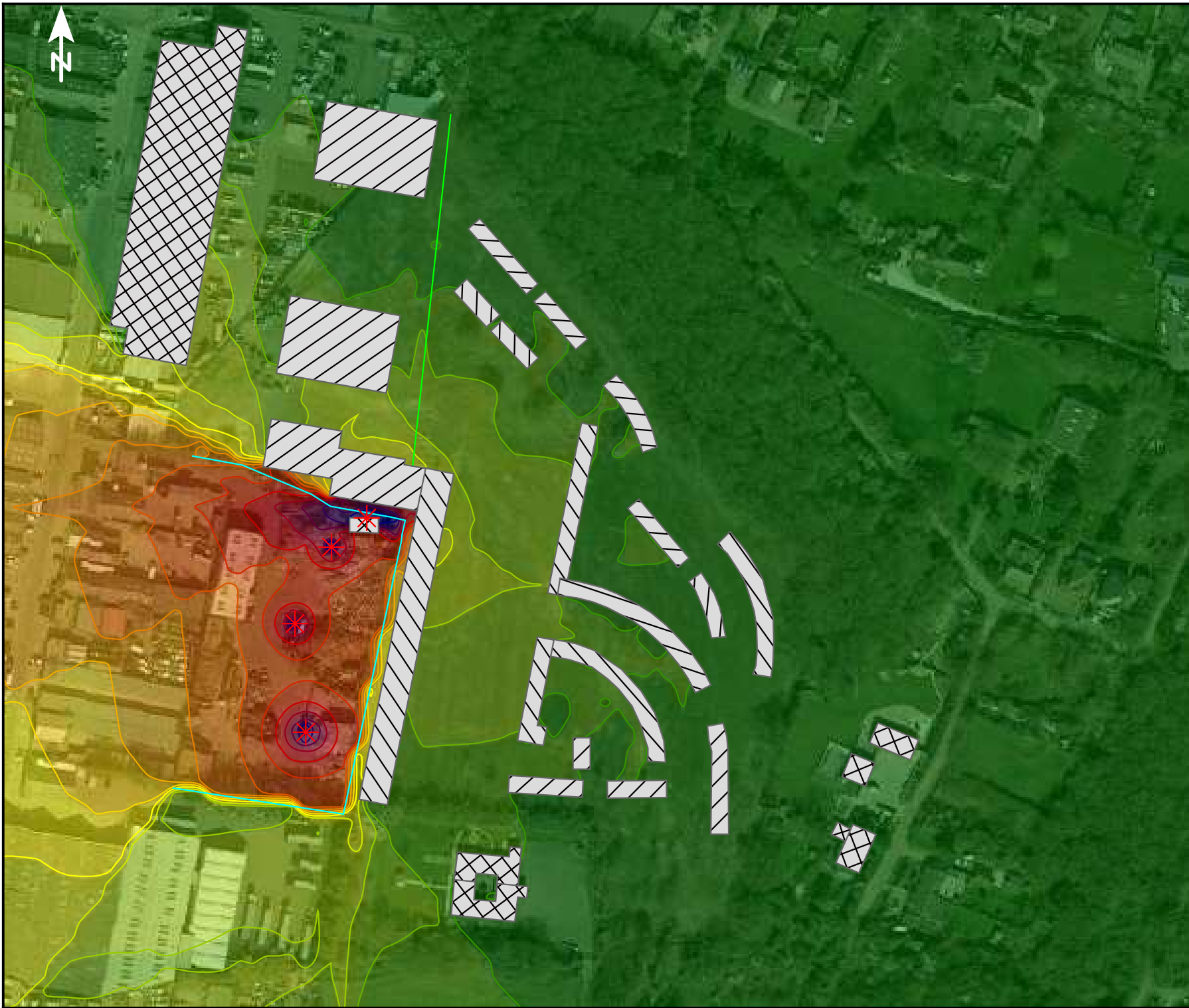
Corrected for licensed operational
hours (11 of 16).

Signs and symbols

- Existing Barrier
- Proposed Barrier
- Receiver
- Receiver at building
- Source: Crusher/Grabber

1 : 1925





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Land East of Manor Trading
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Appendix D6 - Noise Map Proposed Mixed-use Scheme Predicted Noise Climate

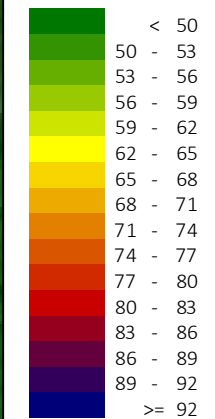
Author: Josie Nixon MIOA

Corrected for licensed operational
hours (11 of 16)

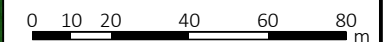
Signs and symbols

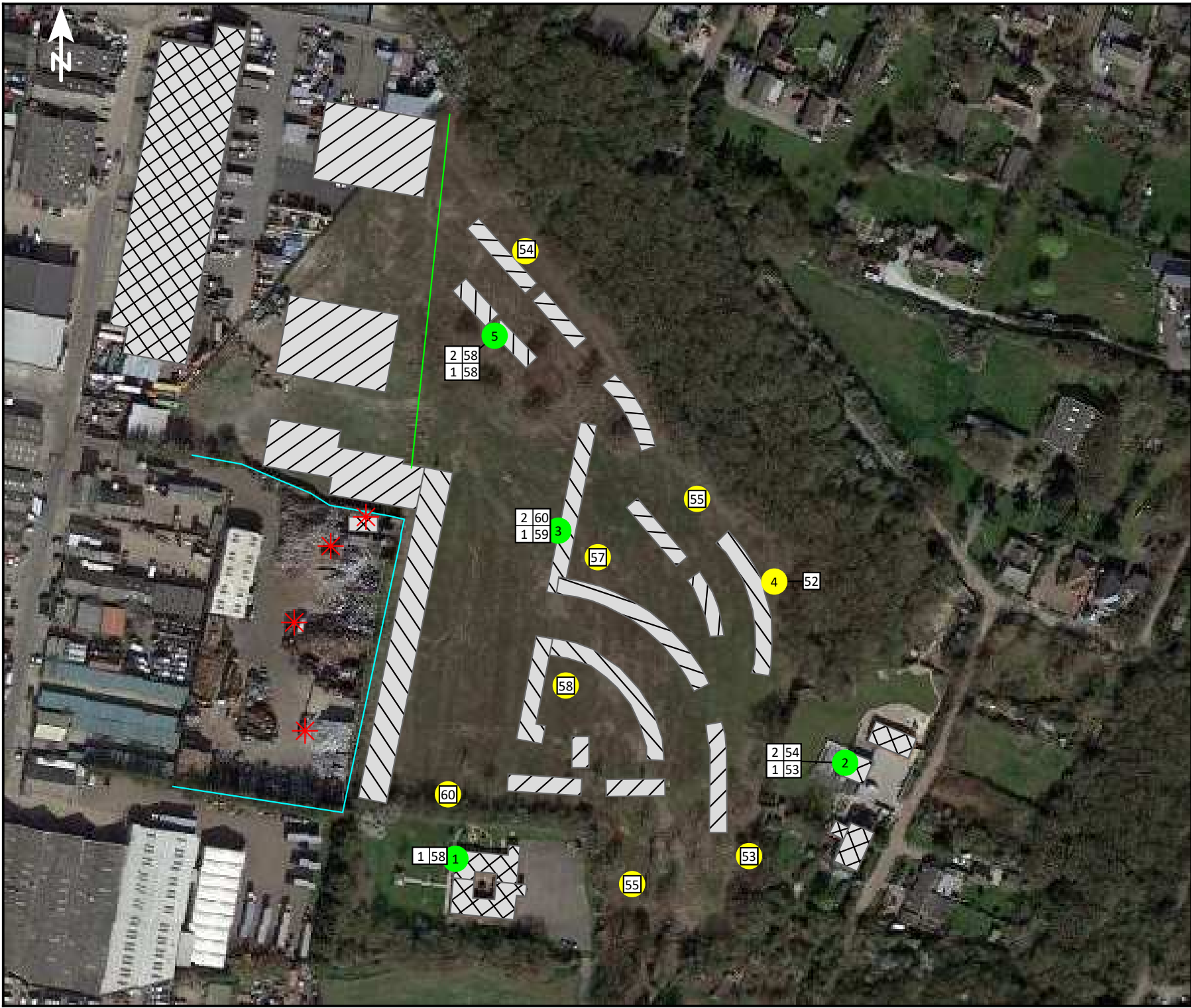
- Existing Barrier
- Proposed Barrier
- Source: Crusher/Grabber

Levels in dB(A)



1 : 1925





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Appendix D7 - Points Map
Proposed Mixed-use Scheme
Predicted Noise Climate
incorporating 8dB Penalties

Author: Josie Nixon MIOA
Corrected for licensed operational
hours (11 of 16)

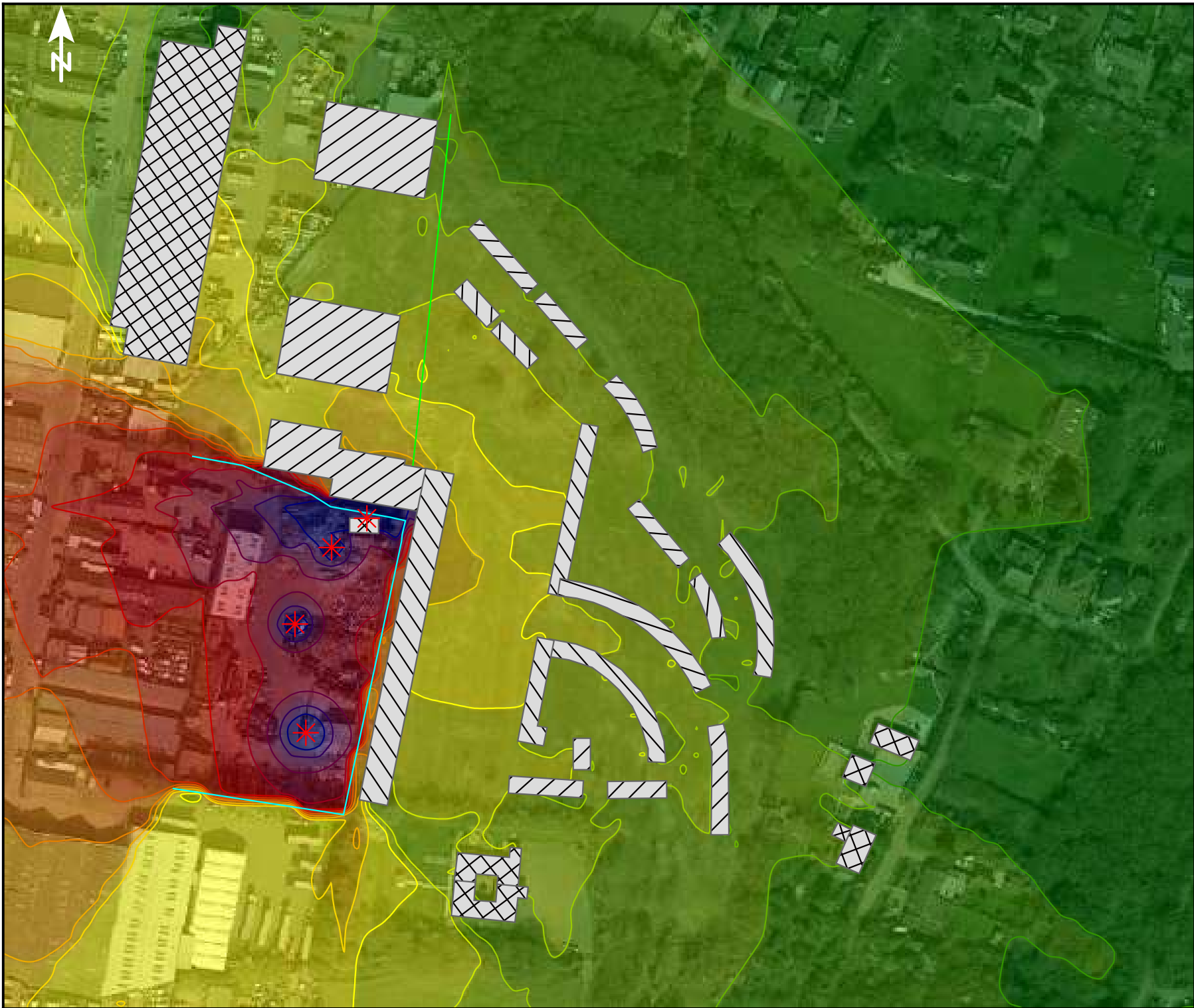
Signs and symbols

- Existing Barrier
- Proposed Barrier
- Receiver
- Receiver at building
- Source: Crusher/Grabber

1 : 1925

0 10 20 40 60 80 m





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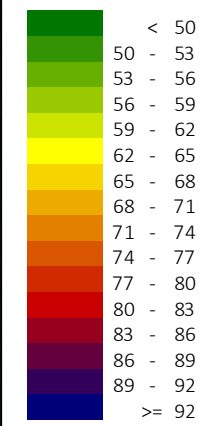
Appendix D8 - Noise Map
Proposed Mixed-use Scheme
Predicted Noise Climate
incorporating 8dB Penalties

Author: Josie Nixon MIOA
Corrected for licensed operational
hours (11 of 16)

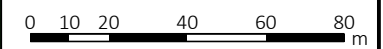
Signs and symbols

- Existing Barrier
- Proposed Barrier
- Source: Crusher/Grabber

Levels in dB(A)



1 : 1925



Land East of Manor Trading Estate, Benfleet

BS EN 12354-3 Calculation to determine glazing specification

Habitable room data variables

Type of habitable room	Bedroom
Volume	25 cubic metres
Total area - external façade(s)	16 square metres
Total area - window(s)	6 square metres
L(k)	3
Lmax (K)	3
Trickle Ventilator(s)	5
Solid Façade (exc. windows)	10 square metres
Reverberation Time	0.5 seconds

**Based on assumed room sizes*

External noise level

	1:1 Octave Bands Centre Frequency (Hz)							dB(A)
	63	125	250	500	1000	2000	4000	
Logged Log average daytime Leq	59	56	54	60	60	54	46	63
Logged Log average night-time Leq	50	44	44	45	46	35	26	48
Logged Lmax for duration of survey	62	58	57	57	54	45	44	58

Sound reduction of building fabric

	1:1 Octave Band Centre Frequency (Hz)							Rw / Dn,e,W
	63	125	250	500	1000	2000	4000	
38 Rw - Pilk 10/12/6mm	24	26	27	34	40	38	46	38
**Standard Masonry from Template Ref	39	41	43	48	50	55	55	
49 Dn,e,w - Renson AK43 - Acoustic trickle vent	32	34	40	44	46	48	52	49

	1:1 Octave Band Centre Frequency (Hz)						
	63	125	250	500	1000	2000	4000
Reduction from façade	-21.6	-23.6	-24.9	-31.7	-36.8	-35.8	-42.8
Addition for Ctr	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Resultant internal noise level

	1:1 Octave Band Centre Frequency (Hz)							dB(A)
	63	125	250	500	1000	2000	4000	
Daytime internal Leq	42	37	34	34	29	23	9	34
Night-time internal Leq	33	25	24	19	15	4	-12	21
Night-time internal Lmax	40	34	32	26	17	10	1	28

Based on BS8233:2014 - Design Criterion: LAeq 30
 Based on BS8233: 1999 Lmax levels LAmax 45

Land East of Manor Trading Estate, Benfleet

BS EN 12354-3 Calculation to determine glazing specification

Habitable room data variables

Type of habitable room	Living Room
Volume	34 cubic metres
Total area - external façade(s)	18 square metres
Total area - window(s)	8 square metres
L(k)	3
Lmax (K)	3
Trickle Ventilator(s)	10
Solid Façade (exc. windows)	10 square metres
Reverberation Time	0.5 seconds

**Based on assumed room sizes*

External noise level

	1:1 Octave Bands Centre Frequency (Hz)							dB(A)
	63	125	250	500	1000	2000	4000	
Logged Log average daytime Leq	59	56	54	60	60	54	46	63
Logged Log average night-time Leq	50	44	44	45	46	35	26	48
Logged Lmax for duration of survey	62	58	57	57	54	45	44	58

Sound reduction of building fabric

	1:1 Octave Band Centre Frequency (Hz)							Rw / Dn,e,W
	63	125	250	500	1000	2000	4000	
39 Rw - SG Phonip 9/6/8mm	28	30	29	32	41	46	49	39
**Standard Masonry from Template Ref	39	41	43	48	50	55	55	
49 Dn,e,w - Renson AK43 - Acoustic trickle vent	32	34	40	44	46	48	52	49

	1:1 Octave Band Centre Frequency (Hz)						
	63	125	250	500	1000	2000	4000
Reduction from façade	-24.4	-26.4	-26.8	-29.9	-37.3	-41.5	-44.5
Addition for Ctr	5.0	5.0	5.0	5.0	5.0	5.0	5.0

Resultant internal noise level

	1:1 Octave Band Centre Frequency (Hz)							dB(A)
	63	125	250	500	1000	2000	4000	
Daytime internal Leq	39	34	33	35	28	17	7	34
Night-time internal Leq	31	22	22	20	14	-2	-14	20
Night-time internal Lmax	37	31	31	27	17	4	0	27

Based on BS8233:2014 - Design Criterion: LAeq 35
 Based on BS8233: 1999 Lmax levels LAmax n/a

Appendix F – Local Authority Provided Map Showing Approximate Location of Noise Complaints

