

Prologis
6250 N. River Rd., Ste. 1100
Rosemont, IL 60018

August 12, 2025

Attn: Ms. Katie Fraser

Re: Yorkville Project Steel Sound Measurements

Dear Ms. Fraser:

The purpose of this letter is to document existing exterior noise levels measured near the property lines of the proposed site of a new data center in Yorkville IL.

Introduction

Langan is an engineer for a proposed data center development in Yorkville, Illinois. The project will be about 540 acres on two parcels generally between Eldamain Rd., Galena Rd., a relocated Beecher Rd., and Corneils Rd. Most or all of the properties are located in unincorporated Kendall Co. and will be annexed into Yorkville.

The site will be adjacent to residential properties in every direction except north. Several residences will be located close to mechanical equipment or data center buildings and the equipment has the potential to generate high noise levels at the residences.

Measurements

We conducted environmental sound measurements at the site from June 23 to 27, 2025. The sound level meters were located at four locations on the property. A site plan with measurement locations marked is shown in Figure 1 and the locations are shown in Table 1. A microphone and preamplifier were connected to each sound level meter. The microphones were protected with windscreens and attached to tripods at a height of about 5 ft above the ground. The sound level meters and batteries were contained in weathertight cases.

Table 1. Measurement Locations

Measurement Point	Location	Comments
1	1410 E. Beecher Rd.	East of site
2	10907 Corneils Rd.	Southeast of site
3	Near 10417 Corneils Rd.	Caledonia subdivision
4	790 Eldamain Rd.	West of site

The following instrumentation was used:

- Four Norsonic 140 sound level meters and analyzers
- Four Norsonic Nor 1209 preamplifiers
- Four Norsonic Nor 1125 ½" condenser microphones
- Norsonic Nor 1251 microphone calibrator
- Microphone extension cables, windscreens, and tripods

Measurements were started on June 23, 2025 at about 2 p.m., and terminated on June 27, 2025 about 10 a.m. with the exception of meter 4, which died at 5:50 p.m. June 26, 2025. The periods between 8:15 p.m. and 9:30 p.m. on June 24, 1:30 a.m. and 4:30 a.m. on June 25, and 6:00 p.m. and 7:15 p.m on June 25. were excluded due to rain.

Wind speeds were less than 10 mph throughout the measurement period. The primary noise source in the vicinity was wind noise, with slight traffic on nearby roads, and animal (bird) noise as secondary sources.

The analyzer measured A-weighted sound pressure levels and one-third octave bands. Data were sampled continuously with one-hour intervals and one-second time histories. The L_{eq} (time-average) spectrum and other statistics were stored for each hour and one-second interval. The sound level meters were field calibrated before and after the measurements.

Measurement Results

The highest hourly sound level was 63 dBA, which occurred on June 26 at 5:00 p.m. at location 3. Figures 2 through 5 show the measured one-second and hourly A-weighted sound levels, the LA90, which is the baseline sound level, or the A weighted sound level exceeded during 90% of the measurement, and the time periods that were excluded from the analysis. Table 2 shows the average, highest, and lowest hourly measurements.

Table 2 – Measured Hourly Sound Levels

Location	Average (L_{eq} , dB re 20 μ Pa)			Baseline (L_{90} , dB re 20 μ Pa)		
	Lowest	Average	Highest	Lowest	Average	Highest
1	38 6/24 1:00 a.m.	52	61 6/25 3:00 p.m.	35 6/24 7:00 p.m.	42	51 6/23 3:00 p.m.
2	31 6/24 1:00 a.m.	50	62 6/25 1:00 a.m.	26 6/24 1:00 a.m.	39	46 6/27 12:00 a.m.
3	41 6/23 11:00 p.m.	54	63 6/26 5:00 p.m.	31 6/24 12:00 a.m.	41	47 6/23 4:00 p.m.
4	39 6/24 9:00 p.m.	48	56 6/24 8:00 p.m.	29 6/24 2:00 a.m.	39	45 6/23 3:00 p.m.

Prologis

August 12, 2025

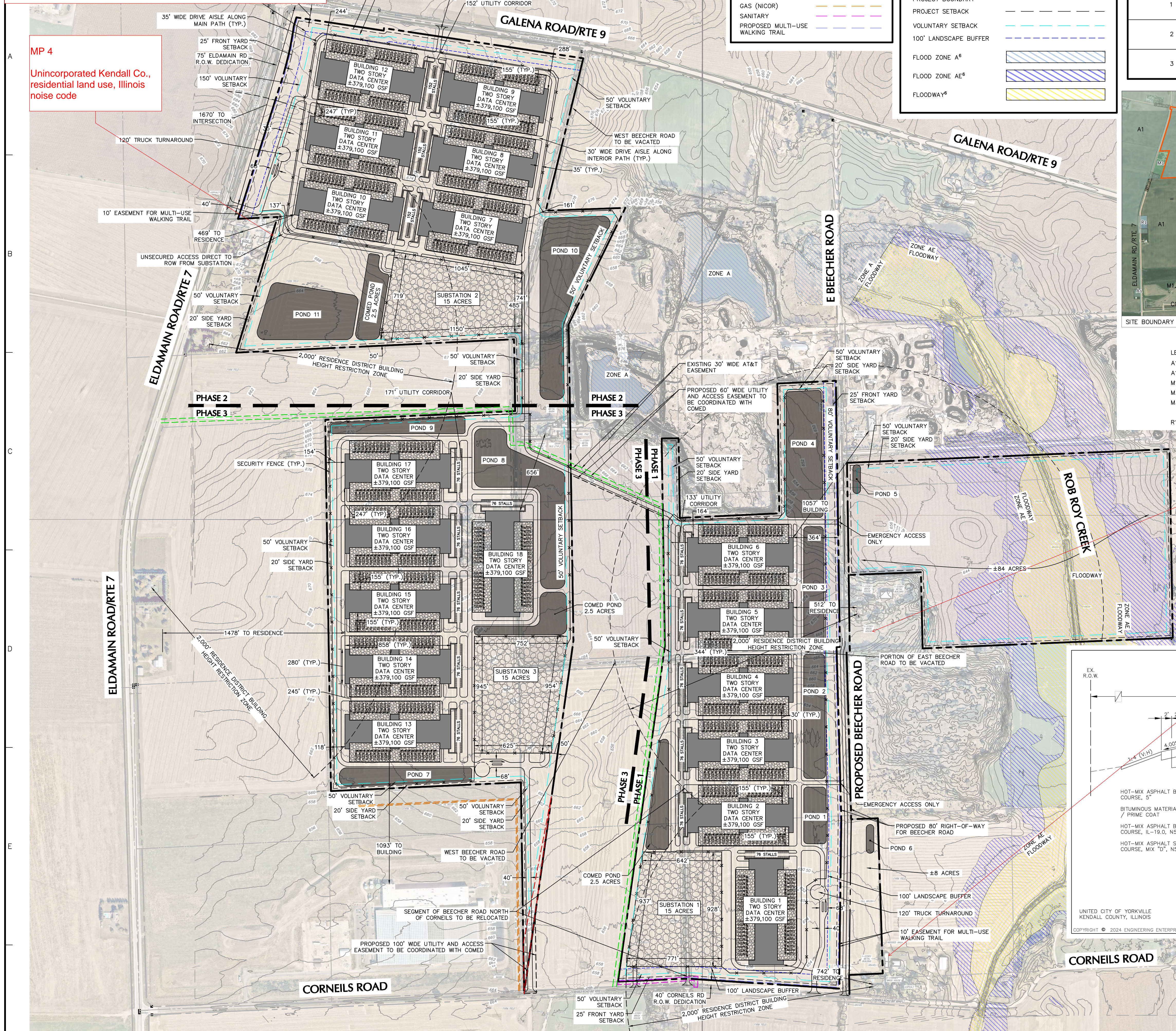
This data will serve as a baseline for our acoustic model of the proposed data center, which will be used to predict sound levels and compliance with local noise ordinances.

If you have questions concerning this report, please do not hesitate to contact us.

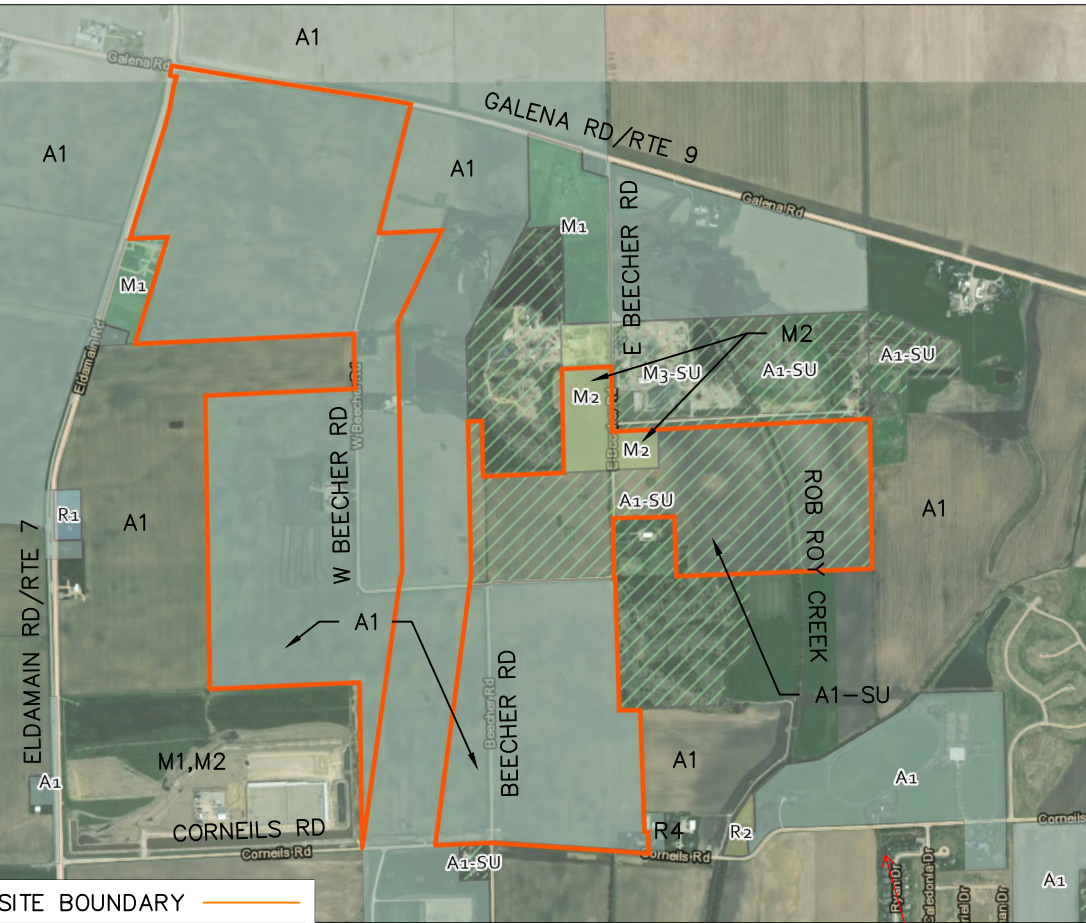
Respectfully submitted,
Shiner Acoustics, LLC

Michael Tendy

Fig. 1 Background Sound Measurement Points



PROPOSED PHASING SCHEDULE		
PHASE	BUILDINGS	SITE FEATURES
1	6 TOTAL (BUILDINGS 1-6)	3 PONDS (1-3) SUBSTATION 1 COMED POND ASSOCIATED PARKING
2	6 TOTAL (BUILDINGS 7-12)	2 PONDS (7-8) SUBSTATION 2 COMED POND ASSOCIATED PARKING
3	6 TOTAL (BUILDINGS 13-18)	3 PONDS (4-6) SUBSTATION 3 COMED POND ASSOCIATED PARKING



BULK AND DIMENSIONAL STANDARDS			
EXISTING: BRISTOL TOWNSHIP, KENDALL COUNTY, IL ZONE: A1, A1-SU, M2			
PROPOSED: CITY OF YORKVILLE, KENDALL COUNTY, IL ZONE: M2			
REFERENCE: CITY OF YORKVILLE ZONING ORDINANCE			
TOTAL COMBINED PROJECT AREA = ±540 Acres (150 + 298 + 84 + 8)			
LOT A - PHASE 1			
ITEM	REQUIRED	PROPOSED	REFERENCE
LOT SIZE (ACRES)	NONE	±150	10-3-9
MINIMUM LOT FRONTAGE (FEET)	NONE	±6,800 ¹	10-3-9
MAXIMUM BUILDING HEIGHT (FEET)	N/A	±56.5	10-3-9
MAXIMUM BLDG. EQUIPMENT HEIGHT (FT)	N/A	±70	---
MAXIMUM LOT COVERAGE (%)	±85%	±60%	10-3-9
LANDSCAPE ZONE (FEET)	30	50	2009-42
REQUIRED YARD (FEET)			
FRONT	25	±80	10-3-9
SIDE	MIN. 10% OF LOT MAX. 20	±50	10-3-9
REAR	N/A	±50	10-3-9
LOT B - PHASE 2 AND 3			
LOT SIZE (ACRES)	NONE	±298	10-3-9
MINIMUM LOT FRONTAGE (FEET)	NONE	±4,175	10-3-9
MAXIMUM BUILDING HEIGHT (FEET)	N/A	±56.5	10-3-9
MAXIMUM BLDG. EQUIPMENT HEIGHT (FT)	N/A	±70	---
MAXIMUM BUILDING COVERAGE (%)	±85%	±30%	10-3-9
LANDSCAPE ZONE (FEET)	30	50	2009-42
REQUIRED YARD (FEET)			
FRONT	25	±150	10-3-9
SIDE	MIN. 10% OF LOT MAX. 20	±50	10-3-9
REAR	N/A	±50	10-3-9
PARKING CHART			
LOT A - PHASE 1			
EMPLOYEE PARKING	0.2 PER 1,000 ³	456 ³	10-4-10
ACCESSIBLE PARKING	PER IL ADA	9 ⁴	10-5-1(D)
E/V PARKING	1 PER 50	10 ⁵	10-5-1(K)
LOT B - PHASE 2			
EMPLOYEE PARKING	0.2 PER 1,000 ³	456 ³	10-4-10
ACCESSIBLE PARKING	PER IL ADA	9 ⁴	10-5-1(D)
E/V PARKING	1 PER 50	10 ⁵	10-5-1(K)
LOT C - PHASE 3			
EMPLOYEE PARKING	0.2 PER 1,000 ³	456 ³	10-4-10
ACCESSIBLE PARKING	PER IL ADA	9 ⁴	10-5-1(D)
E/V PARKING	1 PER 50	10 ⁵	10-5-1(K)

Date	Description	No.
Revisions		

LANGAN

Langan Engineering, Environmental, Surveying
Landscape Architecture and Geology, D.P.C.
200 West Madison Street, Suite 2900
Chicago, IL 60606

T: 312.547.7700 F: 312.547.7701 www.langan.com

Project

PROJECT STEEL

YORKVILLE
KENDALL COUNTY ILLINOIS

Drawing Title

ILLINOIS

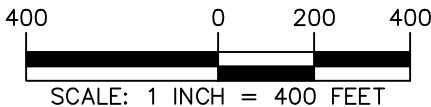
PRELIMINARY PUD PLAN

Project No. 541061101	Drawing No.
Date 5/16/2025	PUD-02
Drawn By NRR	
Checked By TDO	
Sheet 1 of 1	

Project No. 541061101

© 2025 Langan

NOT FOR CONSTRUCTION



Date: 7/10/2025 Time: 17:30 User: pdravet Style Table: Langan.stb Layout: CP-01 Document Code: CP01-541061101-0102-CS101-0

Figure 2 - Location 1 Sound Pressure Levels

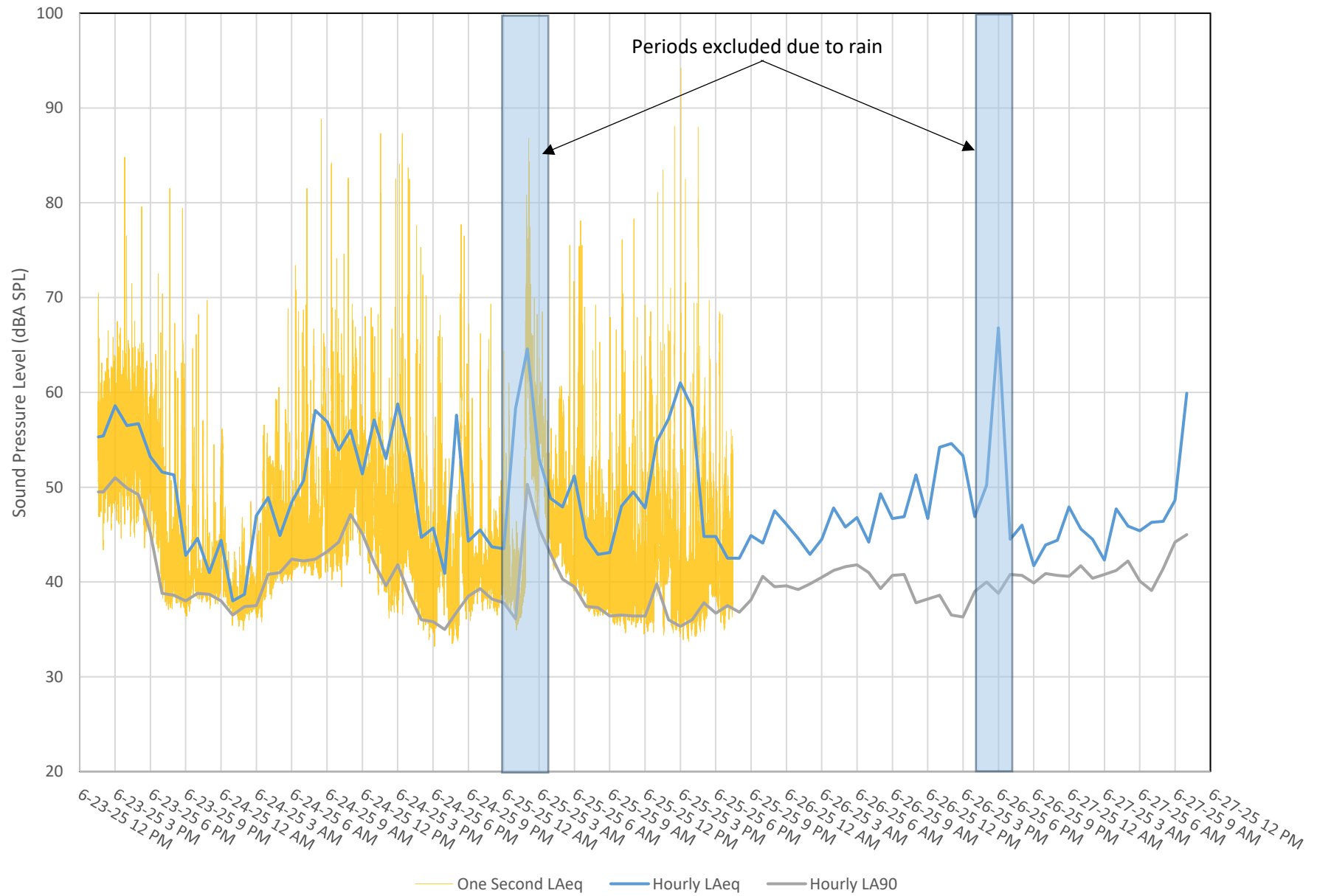


Figure 3 - Location 2 Sound Pressure Levels

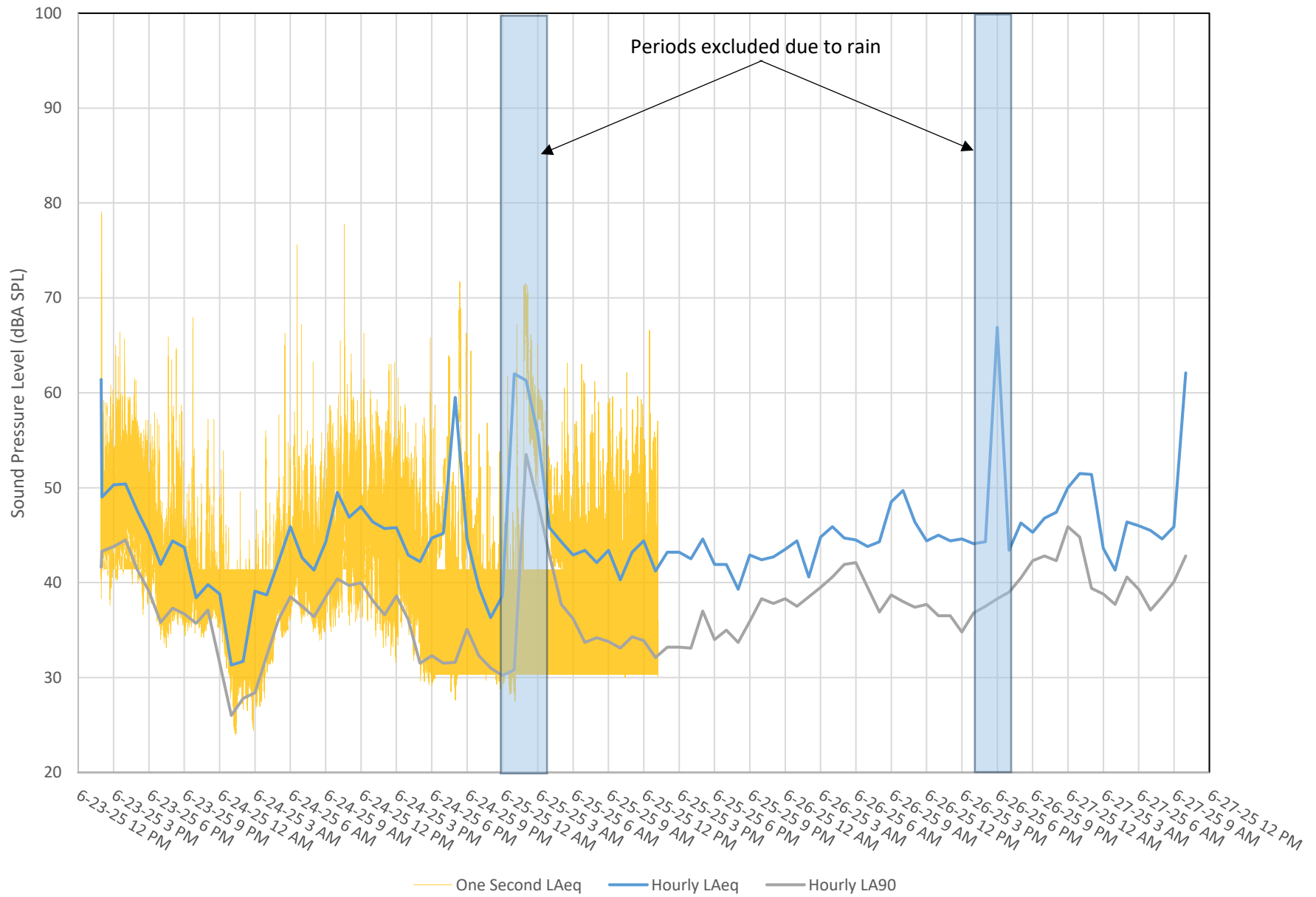


Figure 4 - Location 3 Sound Pressure Levels

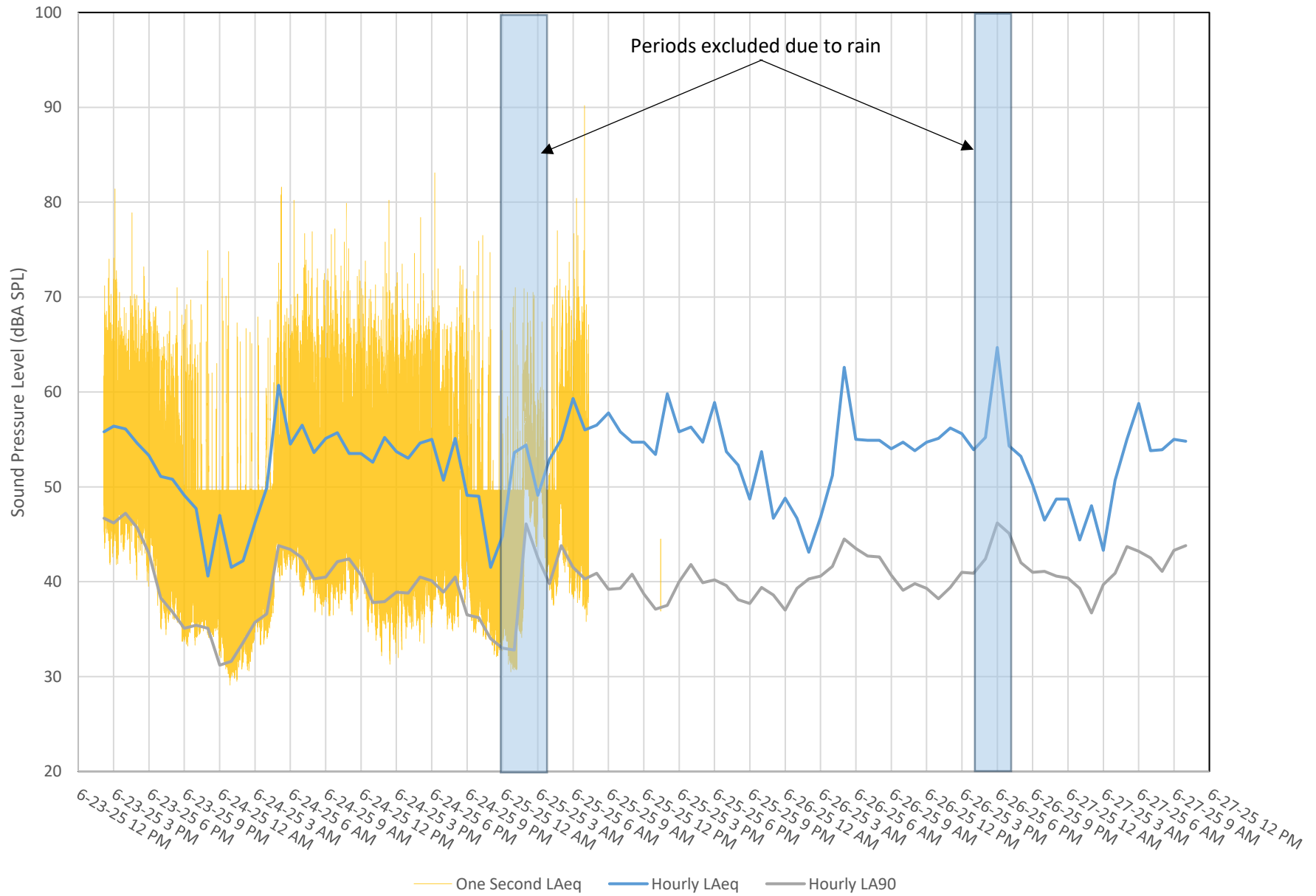


Figure 5 - Location 4 Sound Pressure Levels

