



POLYSONICS

Acoustics & Technology Consulting

BRADLEY HILLS ANIMAL HOSPITAL

24-HR NOISE SURVEY & ANALYSIS

ACOUSTICS

PREPARED FOR: MHG

10/24/2023

the sound of experience



Exhibit 17
OZAH Case No: CU 24-11



Patrick La Vay
Macris, Hendricks, and Glascock, P.A.
9220 Wightman Rd
Montgomery Village, MD 20886

October 24, 2023
Bradley Hills Animal Hospital
24-Hr Noise Survey & Analysis
Report #6273

Dear Mr. La Vay,

Polysonics performed a 24-hour noise survey on October 19, 2023 for the Bradley Hills Animal Hospital project in Bethesda, Maryland.

Project Standards

The concern for this project is the exterior noise around the property. The goal is to satisfy the Montgomery County Noise Control Ordinance Chapter 31B for sound levels at the nearest property line.

Section **31B-5 Noise level and noise disturbance violations** states:

(a) *Maximum allowable noise levels.*

(1) Except as otherwise provided in Sections 31B-6(a) and 31B-8, a person must not cause or permit noise levels that exceed the following levels:

TABLE 1: MONTGOMERY COUNTY NOISE REGULATIONS

<i>Maximum Allowable Noise Levels (dBA) for Receiving Noise Areas</i>		
	<i>Daytime</i>	<i>Nighttime</i>
Non-residential noise area	67	62
Residential noise area	65	55

(2) A person must not cause or permit the emission of a prominent discrete tone or impulsive noise that exceeds a level, at the location on a receiving property where noise from the source is greatest, that is 5 dBA lower than the level set in paragraph (1) for the applicable noise area and time.

Person means an individual, group of individuals, corporation, firm, partnership, or voluntary association; or a department, bureau, agency, or instrument of the County or any municipality, or of any other government to the extent allowed by law.

Note: Sections 31B-6(a) and 31B-8 do not apply to this project because it is not a construction site nor a designated noise sensitive area.

The Animal Hospital is in a residential noise area, therefore the requirements of 65 dBA daytime and 55 dBA nighttime apply per the table above.

Measured Noise Conditions

On October 19th through 20th 2023, Polysonics conducted a 24-hour noise measurement survey at the Bradley Hills Animal Hospital site to determine current property noise levels. The instrumentation used for the survey included two Larson Davis SoundExpert LxT Sound Level Meters (SLM1 and SLM2). These instruments are capable of measuring noise levels and calculating statistical results over the time period measured. The units meet ANSI S1.4 standards for Type I Sound Level Meters. Each meter was calibrated prior to the measurement survey, traceable to National Institute of Standards and Technology (NIST). All measurements were made in the standard dBA metric, which best simulates human hearing and is in accordance with Montgomery County standards.

SLM1 was positioned approximately 30 ft. 6 in. from the roadway edge of pavement (Bradley Blvd) and 48 ft. 9 in. from the NW property line. Its full measurement time period was from 05:54:59 am on October 19th to 06:55:23 am on October 20th.

SLM2 was positioned approximately 97 ft. 8 in. from the roadway edge of pavement (Bradley Blvd) and 5 ft. 5 in. from the NW property line. Its full measurement time period was from 05:55:40 am on October 19th to 06:58:11 am on October 20th.

TABLE 2: 24-HOUR NOISE SURVEY MEASUREMENT LOCATIONS AND RESULTS

	L _{DAY} (dBA)	L _{NIGHT} (dBA)
SLM1 (30 ft. 6 in. from roadway edge)	65.7	55.0
SLM2 (97 ft. 8 in. from roadway edge)	58.9	50.7

The distance from roadway edge is included as reference in Table 2 because it shows that noise levels were higher closer to the roadway (SLM1) and lower closer to the Animal Hospital (SLM2), therefore we can deduce that the higher levels observed at SLM1 were due to roadway noise rather than any noise coming from the Animal Hospital. It was also observed from the location of SLM1 that no audible noises came from the Animal Hospital during normal business operating hours.

The location of SLM2 was only approximately 10 to 15 feet from the edge of the Animal Hospital building and can effectively represent the sound level at the nearest property line (NW) as required by this report. Figure 1 in the Appendix shows the locations of SLM1 and SLM2.

The opposing side of the property (SE) has neighboring housing that is significantly farther away from the property line than the property on the NW side, and there were no audible noises observed from this side, therefore it can be determined that the noise levels at the SE property line are no more than the noise levels at the NW side.

Worst case scenario sound levels were not apparent during testing, as no discernable noises that could represent worst case scenarios were observed during the daytime business hours. Having no exterior dog run can be a contributing factor to the low noise levels from the Animal Hospital, and there were no prominent impulse noises observed at the property line.

Conclusions

The noise levels emitted from the Animal Hospital meet the criteria set forth in Chapter 31B of the Montgomery County Noise Control Ordinance, by maintaining daytime levels below 65 dBA and nighttime levels below 55 dBA.

Please let me know if you would like any further information.

Sincerely,
Polysonics

A handwritten signature in cursive script that reads "Paul Howie".

Paul Howie
Acoustics Consultant
Direct line: 540-341-4988 x-116

APPENDIX

POLYSONICS

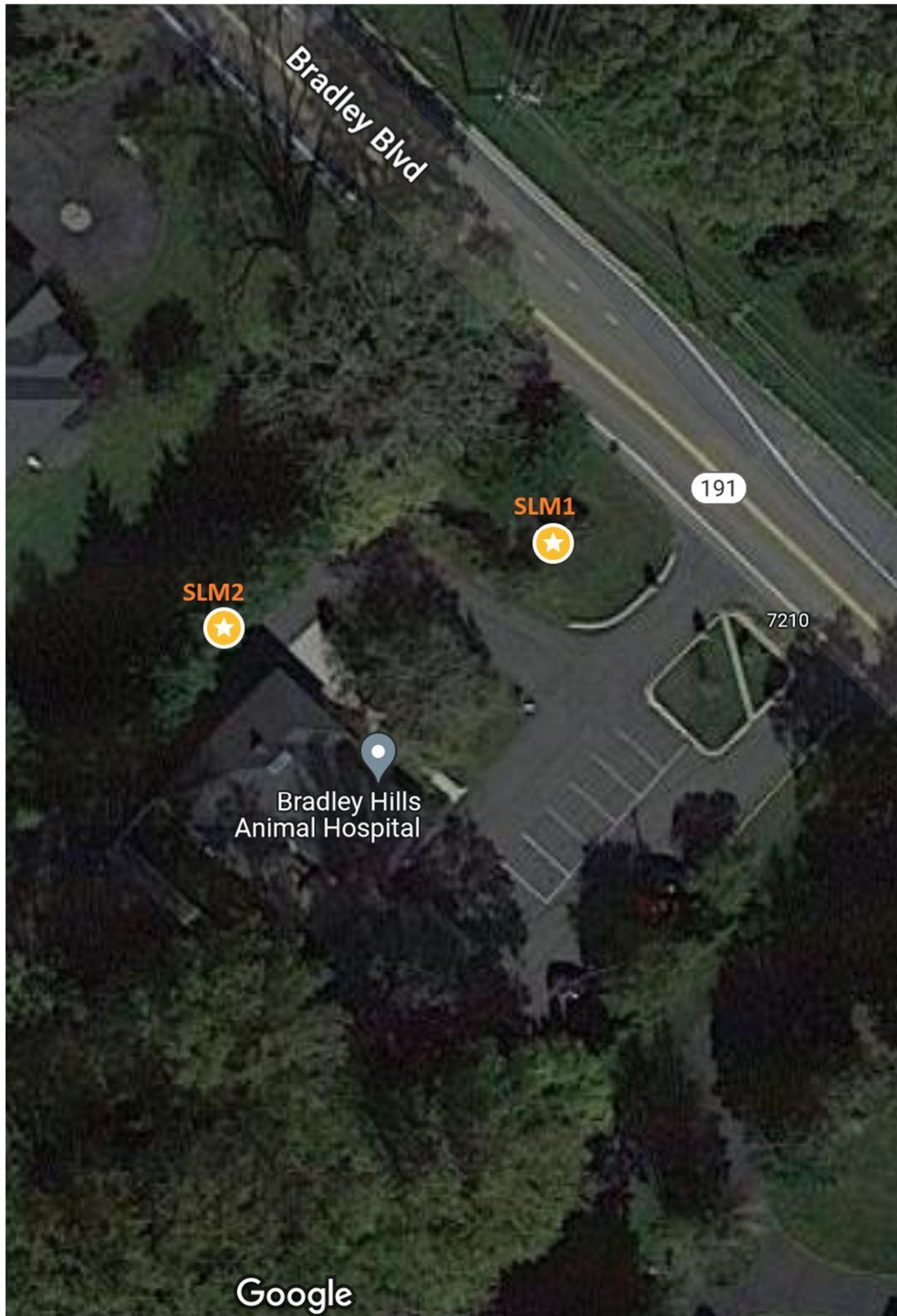
BRADLEY HILLS ANIMAL HOSPITAL: 24-HR NOISE SURVEY & ANALYSIS

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FIGURE 1: SLM1 AND SLM2 MEASUREMENT LOCATIONS





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