

STADIUM NOISE EVALUATION

CAPITAL UNIVERSITY



LOCATION

City of Bexley, Ohio

TASKS

24-Hour Noise Readings
Noise Evaluation

HIGHLIGHTS

Conducted 24-hour noise readings at sites around stadium
Determined community noise levels for stadium activity
Performed evaluation of noise levels and requirements

PROJECT DESCRIPTION

Capital University installed and commissioned a PA system in the Bernlohr Stadium. There are two requirements associated with stadium noise that need to be met by the University in order to remain in compliance with City approvals for (1) the PA system noise level and (2) the 24-hour community noise level (CNEL) associated with stadium activity.

As a result, BPS performed field testing to evaluate the noise levels and to determine the University's compliance with these conditions. BPS staff performed noise readings at six locations around the stadium's perimeter fence line over one day. Additionally, BPS staff performed a CNEL noise reading in the southwest corner of the backyard of an adjacent property. The 24-hour noise reading field work was performed over three days. During that 24-hour period, a home football game was held in the stadium.

Overall, the PA System Evaluation indicated the noise levels at all of the noise reading locations, including the fence line, are in compliance with City requirements. In addition, the CNEL is also in compliance with the City requirements, indicating that there is less than a 10 dB increase in noise levels for football game days.

