

calculated at the closest noise-sensitive receptors in the area near the proposed substation using SoundPLAN.

Sound generated by the transformers is not anticipated to significantly contribute to the existing environmental sound levels surrounding the site. Also, sound generated by the transformers is expected to be mitigated by providing sufficient offsets between the transformers and surrounding noise-sensitive land uses.

Results

The SoundPLAN-predicted maximum equivalent operational sound levels at the residential structures surrounding the site are anticipated to be at or below approximately 50 dB(A).

Since the predicted operational sound levels are anticipated to be near or below the established threshold of 50 dB(A) established for reference purposes, noise mitigation measures do not need to be included in the project design. The anticipated operational sound contours are shown in **Figure 4**.

Conclusions

The site is generally located east of GA-133 (Valdosta Highway), east of Peach Road, west of Guess Road, and intersected by Lawson Mill Pond Road. The solar site will be located on agricultural and forested land with rural residential properties surrounding the project area.

After modeling and analyzing the anticipated operational sound levels throughout the proposed solar site, it was determined that noise mitigation measures are not needed since the anticipated operational sound levels will be below the established sound level threshold of 50 dB(A) at a noise-sensitive land use.