

## **Subject: CCSO Firing Range Noise Attenuation**

### **Background:**

Board direction was provided to look further into vegetative sound attenuation at the Firing Range on Airport Rd.

### **Progress:**

- Natural Buffering – Typically requires 30-60 ft of dense vegetation to achieve ~3-5 dB attenuation. The range property has only 6 ft of available space. The estates have 50 ft buffered space available.
- Hardened Buffering – Research was conducted to determine the level of effort and estimated costs to install a sound wall (like those installed along highways and interstates to protect residential areas from the noise. We estimate that cost to be \$500K for design and construction of a wall that is 10 feet high and up to 800 feet long. This option would provide 5-10 dB of attenuation.

### **Recommendation:**

- Natural buffering is not an option with the limits of space on the site, at this time we recommend Waterford Estates replace the vegetation lost from Hurricanes with sound attenuating landscape.