

## **Data Center Advisory Group**

**May 7<sup>th</sup> 2025**

### **DSB 107/ Teams**

#### **Check-in**

- Tony – Planning continues to work with Moseley on the scope of work with the zoning consults
- Kathy – inquired about when the involvement of DCOAG will happen with the zoning ordinance.
  - DCOAG will be included once the Task Order with Mosley is completed (they aren't under contract for this work at this time).
- Dale- Community meeting with Cloud HQ Tuesday (May 6) evening for MCC7. Stated the meeting was very informative.
  - Spoke with Peter Whirling during the event and discussed the possibility of providing a noise model for the Great Oak Community.
  - MCC7 will have almost the same design as the Cloud HQ building along Harry Parrish Blvd.
- Dale discussed with a resident from the community who said that Noise impact from the Data Centers has had a negative impact on her health.
- Kevin C- provided DCOAG with research information to the team that shows and explains the noise impacts from data centers, Will email to Melody and Wade to send out to the team and post on the DCOAG website.

#### **David Nelson Presentation**

**David Nelson analyzed the noise meter reading and discussed his findings with the group.**

- Measurements were taken in 10 min- sequence noise
  - During the analysis David noticed some weather and environmental noises and the need to clean up some of the audio to remove them to have a clear reading
- The challenge during the noise analysis was the difficulty in distinguishing data center noise due to overlapping traffic noise during the readings.

- Measurements took place from 04/24 to 04/30 on Loblolly and Winged Elm streets
- noticed tones that spiked during the 3:00 AM. Thought this was coming from the VRE Station.
  - Dale- stated he has only received noise complaints once a week usually on Mondays.
  - The noise noticed was more stationary sounding and may be suspected to be coming from VRE, when the trains are getting for the day.
- The challenge during the noise analysis phase was trying to distinguish data center noise due to overlapping traffic noise.
  - This will be a challenge for the enforcement
- A - weighted sound noted the Traffic noise and C -weighted sounds would be the low-frequency noise.
- Discuss the C- Weighted levels that may come from the Data Centers.
  - Noise levels seem to become a little louder at night.
- Noise measurements captured a lot of traffic noise noting there is a highway close to the residential community.
- Discussed the possibility that fans are going to work more excessively during warmer temperatures.
- 90 Hertz noises were captured from Winged Elm than Loblolly, most likely from traffic noise
- suggested the possibility that traffic noise may also be bouncing off the data center buildings.
  - Traffic plus low-frequency noise is what seems to create a higher dBA.
- The low-frequency noise is calculated to be the “normal” level.
  - Group discussed the concerns of the cumulative impact of multiple data centers and the need for aggressive noise reduction measures to protect the community's health and quality of life.
- A typical traffic noise measurement would be 10-15 dBA higher outside.
  - When someone stands outside low and high-frequency noise is heard verses. When going inside the low-frequency noise is more noticeable.
- Kathy questioned her experience with low- frequency when she experienced Dec 15. She stated she is not used to this type of exposure and was unbearable when she experienced it.
- A multisource environment with data centers – David recommended near-field testing would be beneficial as well as noise modeling.
- Discussed the need for training and possibly acoustic engineer.

- The importance of accurate data collection and analysis to support the noise regulations.
- Suggestion regarding the need for perimeter monitoring and near-field measurements to better isolate the noise from individual data centers.

### **Check out**

- Wade will send the updated draft of the Noise Ordinance
- Wade and Alex will work on combining the survey questions with the noise measurements data.
- David will provide the cleaned noise data and the uncleaned version.
- Wade to meet with the Commonwealth attorney to discuss enforcement and protocol.

### **Meeting Adjourned**

