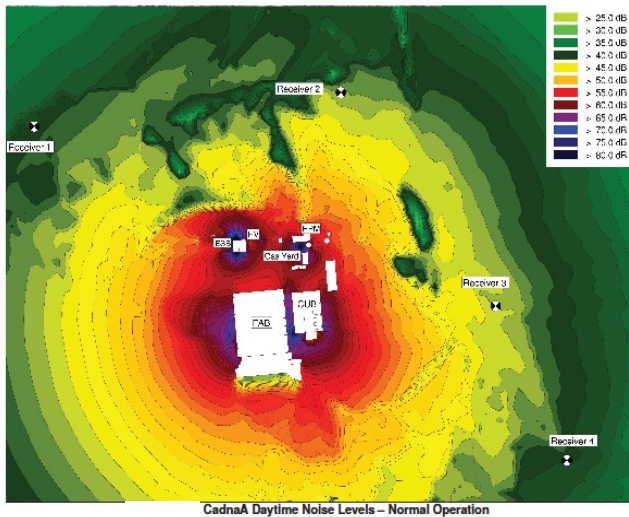




**NOVUS**  
ENGINEERING

## GlobalFoundries Noise Modeling and Monitoring Malta, NY



**Novus Engineering, P.C.** conducted both environmental noise modeling and monitoring services for the Global Foundries Chip Fab project in Malta, New York. The Chip Fab site area covers more than 222 acres and borders both the Town of Malta and the Town of Stillwater.

Prior to construction, Novus worked with M+W U.S. and both Towns to develop satisfactory environmental noise limits during construction and final operation. In addition, Novus modeled the proposed operating conditions using CadnaA (DataKustik) simulation software to predict noise levels at various locations and to determine potential mitigation techniques to reduce unwanted operating noise.

A number of noise sources and problems were identified during the modeling process, which provided feedback to the design team and resulted in several site and equipment changes prior to construction. Recommendations to reduce unwanted operating noise included strategies such as increasing the size of a planned earth berm and relocating mechanical equipment.

During construction, Novus made multiple visits to the site to measure noise levels of construction equipment and plant operations. Novus will continue to monitor the noise levels throughout construction and start-up to verify the accuracy of the modeling work that was done as well as to confirm that the project complies with the noise guidelines established by the Towns. Noise monitors will be installed to record noise data continuously for extended periods of time to identify potential problems that may be missed with short term monitoring. Novus will participate in development of additional noise mitigation measures should they become necessary.

**GlobalFoundries  
Noise Modeling and Monitoring  
Malta, NY**  
**Client: M+W U.S.**  
2008– Present

