Air Analysis and Noise Study
St. Elizabeth's West Campus

Location: Washington, DC

Client: General Services Administration

Description: The General Services Administration (GSA) is planning development of a multi- or single-tenanted high security campus for federal agency tenants on the former Saint Elizabeth's Hospital Campus, and is considering several development alternatives. Straughan Environmental Services, Inc. (SES) completed noise and air quality studies for the proposed project. SES analyzed the effects of additional traffic associated with each development alternative on noise-sensitive residential areas surrounding the campus. SES also considered the effect of additional mobile and stationary air pollution sources on the air quality in the neighborhoods surrounding the campus. The results of the noise and air quality studies will be summarized in the Environmental Impact Statement being prepared to comply with the National Environmental Policy Act (NEPA).

SES performed the noise study using the Federal Highway Administration (FHWA) Highway Traffic Noise Analysis and Abatement Policy and Guidance, U.S. Department of Transportation FHA, 23 CFR Part 722, the National Environmental Policy Act, and all applicable U.S. Environmental Protection Agency regulations. The air quality analysis was performed in accordance with District of Columbia Municipal Regulations Title 20, the Air Pollution Control Act of 1984, 23 CFR Part 771, 49 CFR Part 622, the Clean Air Act and the National Environmental Policy Act in addition to all applicable EPA and District of Columbia Department of Health, Environmental Health Administration, and Air Quality Division Regulations.

SES used the following modeling programs to determine noise and air quality impacts for the development alternatives:

- Traffic Noise Model (TNM) version 2.5 from FHWA
- CAL3QHC (mobile air quality) from EPA
- Screen 3 (stationary/point source air quality) from EPA