



CENTRAL BAYSIDE SYSTEM IMPROVEMENT PROJECT SAN FRANCISCO PUBLIC UTILITIES COMMISSION

Baseline is currently preparing an air quality technical analysis for the San Francisco Public Utilities Commission's (SFPUC's) Central Bayside System Improvement Project. To increase storage capacity and system reliability, the project would construct an underground tunnel for transporting combined sewage, a pump station at the southern end of the tunnel, and three connection elements at both ends of the tunnel. Aboveground construction of the project would occur in an Air Pollution Exposure Zone (APEZ) where residents are already exposed to poor air quality conditions, as defined in the San Francisco's Community Risk Reduction Plan (CRRP). The CRRP was developed in 2012 and provides City-wide health risk mapping from existing air toxics sources such as roadways and permitted stationary sources. The purpose of the air quality analysis is to evaluate the project's emissions and health risk impacts to nearby sensitive receptors. The results from the air quality analysis will be used to support environmental review under the California Environmental Act (CEQA) and provide health risk updates to the City's CRRP database.



Construction of the project is anticipated to occur over six years and involves a significant amount of truck trips, worker trips, and off-road equipment. Operation of the project would include an emergency generator at the proposed pump station, and worker and maintenance trips. Emissions from the project components were evaluated from detailed construction information provided by the SFPUC's engineering design team. Baseline's health risk analysis included air dispersion modeling of diesel particulate matter (DPM) and gasoline organic gases. Project-level health risks were estimated within 1 kilometer of the projects using the same receptor grid as the CRRP. The cumulative health risk analysis at the maximally exposed sensitive receptor combined the project, the existing sources from the CRRP database, and foreseeable future projects. The air quality analysis will undergo the review of San Francisco Department of Planning before the project-level health risks are incorporated into the CRRP database.

