



SEWER SYSTEM IMPROVEMENT PROGRAM | Grey. Green. Clean.

Southeast Treatment Plant: Minimizing Air Quality Impacts

Commitment to the Community

The Bayview-Hunters Point community is home to the Southeast Treatment Plant (SEP), the City's largest wastewater treatment facility. Built in the 1950's, this critical facility treats 80% of the City's wastewater. After years of planning and community engagement, the San Francisco Public Utilities Commission (SFPUC) is investing over \$2 billion to upgrade and modernize the SEP, resulting in a modern facility that looks better, smells better and works better for the Bayview-Hunters Point community and the entire City.

Our Commitment: *We are committed to ensuring the new facilities are cleaner and better for the community, with emission levels that will not exceed that of the current aging facilities.*

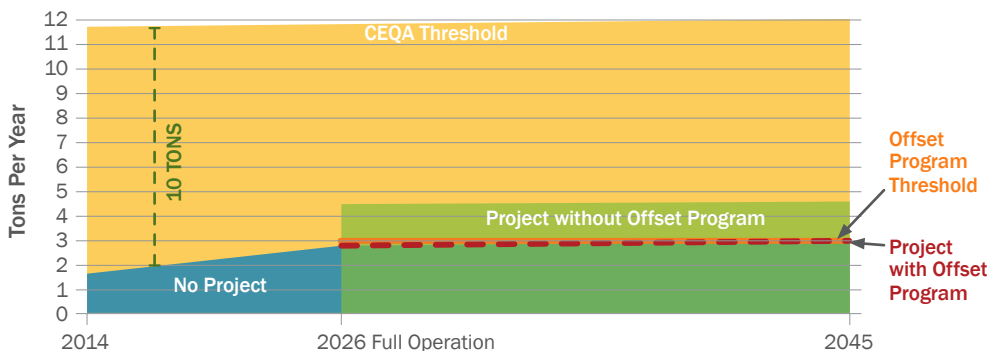
Commitment to Cleaner Future Operations

The existing biosolids processing facilities at the Southeast Treatment Plant currently emit pollutants and odors that impact the neighborhood. The Biosolids Digester Facilities Project will replace and relocate existing equipment with state-of-the-art facilities further away from residents that will reduce air impurities and nuisance odors.

Our Commitment: *We will monitor the PM2.5 emissions from the new facilities and if testing shows the PM2.5 emissions exceed 3.0 tons per year, then we are committed to enact a PM2.5 offset program to further reduce operational emissions.*

Particulate matter (PM) with a diameter of less than 2.5 micrometers, known as PM2.5, is a specific concern of the community because of its adverse health effects. In the planning process, modeling was done to compare estimated future emissions to not having a project. The modeling showed the total annual PM2.5 emissions would increase but stay well below the California Environmental Quality Act (CEQA) threshold. Because we are committed to reducing our impact on the community, we will monitor emissions and take steps to ensure future emissions will not exceed those anticipated from the existing, outdated facilities.

Annual PM2.5 Emissions



Commitment to the Environmental Justice Analysis Recommendations

Planning for the largest project, the Biosolids Digester Facilities Project, included an **Environmental Justice Analysis** in addition to standard **environmental review** to assess the range of impacts and benefits to the local community from construction and future operations. We are committed to enacting all the recommendations made in the analysis.



24-hour Air quality monitoring of new Energy Recovery Facilities at the SEP



PM2.5 offset program*



Strict equipment requirements



No parking or idling near daycare



Future bike lanes on Phelps Street



Improved lighting on Jerrold Avenue



Replace removed trees



Electric vehicle charging stations in District 10



Construction signage in Spanish and Chinese

*If PM2.5 emissions exceed 3.0 tons per year

AIR QUALITY REGULATORY AGENCIES

Several agencies regulate our air quality from the federal to local levels. US Environmental Protection Agency (USEPA), California Air Resources Board (CARB), Bay Area Air Quality Management District (BAAQMD), SF Department of Public Health, SF Public Works.

Commitment to Minimizing Air Pollution During Construction

San Francisco's standards to protect air quality exceed those set by the Bay Area, California and the Federal Government. And yet the Bayview-Hunters Point community and other parts of San Francisco are known to have poor air quality due to traffic, maritime, and industrial activities. The SF Department of Public Health includes these areas in the Air Pollutant Exposure Zone (APEZ). As a result, construction at the SEP is subject to even stricter air quality emission requirements.

Our Commitment: *We are committed to minimizing the air quality impacts of construction by meeting or exceeding the highest and most stringent clean construction requirements in the nation.*

While the investments at the Southeast Treatment Plant will improve the quality of life for the Bayview-Hunters Point Community, these upgrades will take several years of large-scale construction to complete.

Strategies to Reduce Construction Tailpipe Emissions

Tailpipe emissions from construction vehicles and equipment are a major source of air quality pollutants. Cleaner equipment is used during construction and is strictly monitored so emissions are substantially reduced. The cleaner equipment also uses cleaner burning renewable diesel, and we limit idling and prohibit parking in front of the daycare center at 1800 Oakdale to further reduce emissions.

The USEPA and CARB establish emission standards, or "Tier" levels based on engine horsepower and year, for construction equipment such as drill rigs, excavators, and tractors. All equipment at SEP is Tier 4 or equivalent. This is presently the best level of equipment with the least emissions. Trucks used to haul the dirt excavated for the new biosolids digesters are mostly 2010 or newer to further minimize tailpipe emissions during construction.

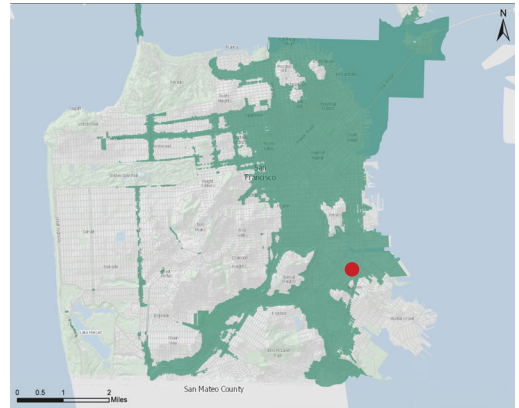
Strategies to Meet or Exceed our Commitments

The on-site SFPUC environmental compliance team works alongside construction managers and inspectors to ensure all environmental requirements are met. They provide training, monitor activities, and identify potential challenges so these frontline workers can do their part to minimize impacts. Additional construction compliance methods include:

- Training, tracking and documentation
- Daily SEP-wide site inspections
- Perimeter air quality monitoring
- Other agency inspections
- SFPUC construction hotline
- IVAN Network (Identifying Violations Affecting Neighborhoods) monitoring

San Francisco Air Pollution Exposure Zone Map

The Air Pollutant Exposure Zone (APEZ) includes areas of San Francisco with higher levels of air pollution.



- Air Pollution Exposure Zone
- Southeast Treatment Plant



The Equipment Identification Number is issued by the CARB and allows us to verify that the specific piece of equipment is Tier 4 or equivalent.



Staff receiving environmental training when they first start on an SEP project.



To report air quality concerns, please call our 24-hour hotline by dialing 3-1-1. You can also visit sf311.org.