REMEDIAITON AIR MONITORING
PACIFIC ROD & GUN CLUB
LAKE MERCED, SAN FRANCISCO

In 2015, Baseline performed air monitoring activities in accordance with a Dust Control Plan during the remediation of the former Pacific Rod & Gun Club (Rod and Gun Club) undertaken by the San Francisco Public Utilities Commission (SFPUC).

The Rod and Gun Club had been used for recreational skeet and trap shooting from 1934 to 2015, which resulted in contamination of soil with lead from lead shot and polycyclic aromatic hydrocarbons (PAHs) from petroleum pitch, which was historically used to manufacture clay pigeons.

The scope of Baseline's air monitoring activities included weather monitoring to determine wind speed and direction, monitoring of respirable dust levels at the perimeter of the site using real time dust monitoring equipment, and sampling of air at the perimeter of the site for analysis of airborne concentrations of respirable dust, lead, and PAHs. Baseline strategically adjusted the number and locations of air monitoring stations based on the extent of work and wind direction to ensure that air monitoring activities provided an accurate and legally defensible assessment of potential impacts to air quality along the perimeter of the site. One air monitoring station was maintained upwind of site work at all times to provide a measurement of background respirable dust levels against which downwind respirable dust levels were compared. Baseline's air monitoring technicians ensured that the remediation contractor implemented the required dust control and mitigation measures and informed the remediation contractor when additional dust suppression effort was required based on real time dust monitoring results and/or visual observations.

Air monitoring results indicated that airborne concentrations of respirable dust, lead, and PAHs at the perimeter of the site were consistently maintained below the action levels established for the site in the Dust Control Plan. Based on air monitoring results during the early stages of remediation activities, it was determined that sampling and analysis of airborne concentrations of PAHs could be suspended through much of the project duration, resulting in substantial savings in laboratory analytical costs for the project sponsor.

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