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Tools & Methodology

The air quality analysis tools below are intended to assist lead agencies in analyzing air quality impacts from proposed land use projects and plans. Refer to the [District's CEQA Guidelines](#) for additional guidance on how to analyze and mitigate specific air quality impacts.

The District's CEQA community risk and hazards screening tools and tables are provided for lead agencies to consider in deciding whether there should be further environmental review of a project. The screening tables are intentionally conservative, such that if a project passes the initial screen, no additional review related to the impact is necessary. The screening tables are not intended to be used to assess actual risk for all projects. The screening tables are not intended to discourage infill development or affordable housing. If a project does not pass the initial screen, a more advanced screening analysis should be conducted. It is anticipated that most projects that do not pass the initial screen will pass the screen with more refined analysis. The screening tables will continue to be updated to reflect the best available data. To contact the District for additional guidance on the screening tables and to conduct a more advanced screening analysis, please use the Stationary Source Inquiry Form in the table below the flow chart.

Updated	Pollutants	Tools and Resources	Documents
1/3/2014	GHG	CAPCOA GHG Reduction Exchange	CAPCOA_GHGRx(385 k PDF, 1 pg)
5/31/2012	Risks & Hazards	This form is required when users request stationary source data from BAAQMD for environmental review purposes.	Stationary Source Inquiry Form5_30_12(191 k XLSX)
5/31/2012	Risk & Hazards	Screening Analysis Flow Chart - outlines step-by-step screening process for estimating risk and hazards impacts in projects	Updated Screening Approach Flow Chart_May 2012(426 k PDF, 2 pgs)
5/31/2012	Risk & Hazards	Recommended Methods for Screening and Modeling Local Risks and Hazards - describes in detail how to screen and model risk and hazards from stationary, highway, and roadway sources. Also discusses the assumptions and methodologies used in developing the stationary source, highway, and roadway screening tools.	Risk Modeling Approach May 2012(3 Mb PDF, 93 pgs)

Updated	Pollutants	Tools and Resources	Documents
5/30/2012	Risk & Hazards	<p>Stationary Source Screening Analysis Tool - Google Earth map tool to identify stationary sources and associated estimated risk and hazard impacts. Google Earth must be installed to use these files. Please contact District staff when using the Stationary Source Inquiry Form posted above if additional data on stationary sources are needed. <i>Estimated risk and hazard impacts which have "HRA" noted in the Source category were based on Health Risk Screening Assessments conducted by the District for this particular plant, and represent the most site specific data available. The other stationary source risk and hazard impacts data were derived using conservative modeling parameters and assumptions. The estimated risk and hazard impacts from these sources would be expected to be substantially lower when site specific Health Risk Screening Assessments are conducted. In addition, plants which include only a diesel internal-combustion engine(s) are noted in the Source category. The estimated risk and hazard impacts for plants with only diesel IC engine(s) can be adjusted using the District's diesel IC multiplier tool. The estimated risk and hazard impacts for gasoline dispensing facilities (GDF), which are noted with a "G" at the beginning of the plant name, can be adjusted using the District's GDF multiplier tool.</i></p>	<p>Alameda_2012(3 Mb KML) Marin_Sonoma_2012(1 Mb KML) San_Francisco_2012(1 Mb KML) Santa_Clara_2012(3 Mb KML) Napa_Solano_2012(1 Mb KML) Contra_Costa_2012(2 Mb KML) San_Mateo_2012(2 Mb KML)</p>
6/13/2012	Risk & Hazards	<p>Gasoline Dispensing Facility (GDF) Distance Multiplier Tool: This distance multiplier tool refines the screening values for cancer risk and chronic hazard index found in the District's Stationary Source Screening Analysis Tool for GDF's, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.</p>	<p>GDF Distance Multiplier Tool(15 k XLSX)</p>

Updated	Pollutants	Tools and Resources	Documents
6/13/2012	Risk & Hazards	Diesel Internal Combustion (IC) Engine Distance Multiplier Tool: This distance multiplier tool refines the screening values for cancer risk and PM2.5 concentrations found in the District's Stationary Source Screening Analysis Tool for permitted facilities which contain only diesel IC engines, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.	Diesel IC Engine Multiplier Tool (13 k XLSX)
4/29/2011	Risk & Hazards	Roadway Screening Analysis Tables - county specific tables containing estimates of risk and hazard impacts from roadways in the Bay Area.	County Surface Street Screening Tables Dec 2011 (145 k PDF, 9 pgs)
4/29/2011	Risks and Hazards	Highway Screening Analysis Tool- Google Earth map tool to identify estimated risk and hazard impacts from highways throughout the Bay Area. Google Earth must be installed to run files. Click on different segments of the highways to view estimated risk and hazard impacts that represent the average annual daily traffic (AADT) count, fleet mix and other modeling parameters specific to that segment of the highway. <i>The estimated risk and hazard impacts were modeled at two different heights, 6ft. and 20 ft. The 6 ft. height estimates should be used when receptors are located on the ground floor of a building; and the 20 ft. height estimates should be used when receptors are located on the second floor of a building.</i>	Alameda-6ft (1 Mb KMZ) ContraCosta-6ft (483 k KMZ) Marin-6ft (200 k KMZ) Napa-6ft (96 k KMZ) SanFrancisco-6ft (390 k KMZ) SanMateo-6ft (552 k KMZ) SantaClara-6ft (1 Mb KMZ) Solano-6ft (428 k KMZ) Sonoma-6ft (287 k KMZ) Alameda-20ft (1 Mb KMZ) ContraCosta-20ft (481 k KMZ) Marin-20ft (199 k KMZ) Napa-20ft (95 k KMZ) SanFrancisco-20ft (388 k KMZ) SanMateo-20ft (549 k KMZ) SantaClara-20ft (1 Mb KMZ) Solano-20ft (422 k KMZ) Sonoma-20ft (286 k KMZ)
5/3/2010	Risk & Hazards	Construction Risk & Hazard Analysis - interim tool for evaluating risk and hazard impacts from construction	<i>Being Updated</i>

Updated	Pollutants	Tools and Resources	Documents
5/31/2012	GHG	CAPCOA GHG Mitigation Quantification Report - contains numerous strategies for reducing GHG emissions in projects and plans	<i>Being Updated</i>
5/31/2012	GHG	GHG Plan Level Guidance - describes recommended criteria for developing a Qualified GHG Reduction Strategy/Climate Action Plan	GHG Quantification Guidance May 2012 (294 k PDF, 24 pgs)
5/31/2012	All	Methodology For Establishing Offsite Mitigation - guidance for lead agencies considering offsite mitigation	Offsite Mitigation Guidance May 2012 (91 k PDF, 3 pgs)

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