

Appendix G

Health Risk Assessment Modeling Information

FID	OBJECTID	FACID	Name	Address	City	St	Zip	County	Cancer	Hazard	PM_25	Type	Latitude	Longitude x	y	
48	48	433	Kaiser French Campus	4131 Geary Boulevard	San Francisco	CA		94118 San Francisco		3.71	0.01	0.69 Contact BAAQMD	37.781	-122.464	-1.4E+07	4548500
1610	1,610	13516	Pacific Bell	389 9th Avenue	San Francisco	CA		94118 San Francisco		25.96	0.04	0.03 Generators	37.781	-122.468	-1.4E+07	4548558
5321	5,321	21727	City and County of San Francisco Police Dept	461 6th Avenue	San Francisco	CA		94118 San Francisco		1.89	0	0 Generators	37.78	-122.464	-1.4E+07	4548370
7418	7,418	108991	Shell Service Station	4501 Geary Blvd	San Francisco	CA		94118 San Francisco		16.39	0.07	0 Gas Dispensing Facility	37.781	-122.468	-1.4E+07	4548478

FACID	Name	Distance (feet)	Distance Adjustment Factor	Adjusted Cancer	Adjusted Hazard	Adjusted PM2.5	Type
433	Kaiser French Campus	165	0.68	2.5	0.01	0.47	Contact BAAQMD
13516	Pacific Bell	825	0.06	1.6	2.40E-03	1.80E-03	Generators
21727	City and County of San Francisco Police Dept	500	0.12	0.2	0.00E+00	0.00E+00	Generators
108991	Shell Service Station	860	0.02	0.3	1.32E-03	0.00E+00	Gas Dispensing Facility
	Total			4.6	1.1E-02	0.5	

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 GDFs, to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

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.

Generic Distance Multiplier Tool: This distance multiplier tool refines the screening values to represent adjusted risk and hazard impacts that can be expected with farther distances from the source of emissions.

Gas Station				
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard
0	0.0	1.000		0.0000
5	16.4	1.000		0.0000
10	32.8	1.000		0.0000
15	49.2	1.000		0.0000
20	65.6	1.000		0.0000
25	82.0	0.728		0.0000
30	98.4	0.559		0.0000
35	114.8	0.445		0.0000
40	131.2	0.365		0.0000
45	147.6	0.305		0.0000
50	164.0	0.260		0.0000
55	180.4	0.225		0.0000
60	196.9	0.197		0.0000
65	213.3	0.174		0.0000
70	229.7	0.155		0.0000
75	246.1	0.139		0.0000
80	262.5	0.126		0.0000
85	278.9	0.114		0.0000
90	295.3	0.104		0.0000
95	311.7	0.096		0.0000
100	328.1	0.088		0.0000
105	344.5	0.082		0.0000
110	360.9	0.076		0.0000
115	377.3	0.071		0.0000
120	393.7	0.066		0.0000
125	410.1	0.062		0.0000
130	426.5	0.058		0.0000
135	442.9	0.055		0.0000
140	459.3	0.052		0.0000
145	475.7	0.049		0.0000
150	492.1	0.046		0.0000
155	508.5	0.044		0.0000
160	524.9	0.042		0.0000
165	541.3	0.040		0.0000
170	557.7	0.038		0.0000
175	574.1	0.036		0.0000
180	590.6	0.034		0.0000
185	607.0	0.033		0.0000
190	623.4	0.031		0.0000
195	639.8	0.030		0.0000
200	656.2	0.029		0.0000
205	672.6	0.028		0.0000
210	689.0	0.027		0.0000
215	705.4	0.026		0.0000
220	721.8	0.025		0.0000
225	738.2	0.024		0.0000
230	754.6	0.023		0.0000
235	771.0	0.022		0.0000
240	787.4	0.022		0.0000
245	803.8	0.021		0.0000
250	820.2	0.020		0.0000
255	836.6	0.020		0.0000
260	853.0	0.019		0.0000
265	869.4	0.018		0.0000
270	885.8	0.018		0.0000
275	902.2	0.017		0.0000
280	918.6	0.017		0.0000
285	935.0	0.016		0.0000
290	951.4	0.016		0.0000
295	967.8	0.015		0.0000
300	984.3	0.015		0.0000

Diesel Backup Generator						
Distance (meters)	Distance (feet)	Distance adjustment multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM2.5 Concentration	Adjusted PM2.5 Concentration
0	0.0	1.000		0		0
5	16.4	1.000		0		0
10	32.8	1.000		0		0
15	49.2	1.000		0		0
20	65.6	1.000		0		0
25	82.0	0.85		0		0
30	98.4	0.73		0		0
35	114.8	0.64		0		0
40	131.2	0.58		0		0
50	164.0	0.5		0		0
60	196.9	0.41		0		0
70	229.7	0.31		0		0
80	262.5	0.28		0		0
90	295.3	0.25		0		0
100	328.1	0.22		0		0
110	360.9	0.18		0		0
120	393.7	0.16		0		0
130	426.5	0.15		0		0
140	459.3	0.14		0		0
150	492.1	0.12		0		0
160	524.9	0.1		0		0
180	590.6	0.09		0		0
200	656.2	0.08		0		0
220	721.8	0.07		0		0
240	787.4	0.06		0		0
260	853.0	0.05		0		0
280	918.6	0.04		0		0

Generic Case							
Distance (meters)	Distance (feet)	Multiplier	Enter Risk or Hazard	Adjusted Risk or Hazard	Enter PM2.5 Concentration	Adjusted PM2.5 Concentration	
0	0.0	1.000		0		0	
5	16.4	1.000		0		0	
10	32.8	0.883		0		0	
15	49.2	0.855		0		0	
20	65.6	0.827		0		0	
25	82.0	0.801		0		0	
30	98.4	0.775		0		0	
35	114.8	0.750		0		0	
40	131.2	0.726		0		0	
45	147.6	0.702		0		0	
50	164.0	0.679		0		0	
55	180.4	0.658		0		0	
60	196.9	0.636		0		0	
65	213.3	0.616		0		0	
70	229.7	0.596		0		0	
75	246.1	0.577		0		0	
80	262.5	0.558		0		0	
85	278.9	0.540		0		0	
90	295.3	0.523		0		0	
95	311.7	0.506		0		0	
100	328.1	0.489		0		0	
105	344.5	0.474		0		0	
110	360.9	0.458		0		0	
115	377.3	0.444		0		0	
120	393.7	0.429		0		0	
125	410.1	0.415		0		0	
130	426.5	0.402		0		0	
135	442.9	0.389		0		0	
140	459.3	0.376		0		0	
145	475.7	0.364		0		0	
150	492.1	0.353		0		0	
155	508.5	0.341		0		0	
160	524.9	0.330		0		0	
165	541.3	0.319		0		0	
170	557.7	0.309		0		0	
175	574.1	0.299		0		0	
180	590.6	0.290		0		0	
185	607.0	0.280		0		0	
190	623.4	0.271		0		0	
195	639.8	0.262		0		0	
200	656.2	0.254		0		0	
205	672.6	0.246		0		0	
210	689.0	0.238		0		0	
215	705.4	0.230		0		0	
220	721.8	0.223		0		0	
225	738.2	0.216		0		0	
230	754.6	0.209		0		0	
235	771.0	0.202		0		0	
240	787.4	0.195		0		0	
245	803.8	0.189		0		0	
250	820.2	0.183		0		0	
255	836.6	0.177		0		0	
260	853.0	0.171		0		0	
265	869.4	0.166		0		0	
270	885.8	0.160		0		0	
275	902.2	0.155		0		0	
280	918.6	0.150		0		0	
285	935.0	0.145		0		0	
290	951.4	0.141		0		0	
295	967.8	0.136		0		0	
300	984.3	0.132		0		0	